

Data File : VL034302.D
Acq On : 16 Oct 2019 15:28
Operator : SY/AP
Sample : VSTDIC0.1
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Quant Time: Oct 16 16:59:40 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101619AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Oct 16 16:52:05 2019
QLast Update : Wed Oct 16 16:52:05 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1151875	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	2186135	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.15	117	2174563	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.49	95	1895364	10.03	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.17	85	20384	0.120	ppbv	97
3) Chlorodifluoromethane	2.96	51	15450	0.114	ppbv	97
4) Chloromethane	3.12	50	8331	0.105	ppbv	95
5) Vinyl Chloride	3.24	62	7810	0.108	ppbv	95
6) Bromomethane	3.46	94	2373	0.070	ppbv #	65
7) Chloroethane	3.54	64	2035	0.080	ppbv #	60
8) Dichlorotetrafluoroethane	3.17	85	20384	0.136	ppbv	98
9) Propene	2.98	41	2400	0.036	ppbv	88
11) Trichlorofluoromethane	3.95	101	23038	0.149	ppbv #	73
12) 1,1,2-Trichlorotrifluoroet	4.49	101	14709	0.145	ppbv	94
14) Bromoethene	3.73	108	2460	0.059	ppbv #	1
15) Acetone	3.86	43	39145	0.254	ppbv	97
16) 1,3-Butadiene	3.31	39	7062	0.105	ppbv	100
18) 1,1-Dichloroethene	4.29	96	4624	0.105	ppbv #	28
20) Methylene Chloride	4.34	84	4084	0.092	ppbv #	39
21) Allyl Chloride	4.42	41	8189	0.094	ppbv #	79
22) trans-1,2-Dichloroethene	4.90	96	5176	0.117	ppbv #	82
23) Vinyl Acetate	5.09	43	18515	0.081	ppbv #	86
24) 1,1-Dichloroethane	5.02	63	9494	0.062	ppbv #	94
25) Ethyl Acetate	5.71	43	13889	0.048	ppbv #	73
26) Hexane	5.70	57	5760	0.047	ppbv #	1
27) Carbon Disulfide	4.56	76	9966	0.089	ppbv #	8
29) Chloroform	5.77	83	22696	0.131	ppbv	97
31) cis-1,2-Dichloroethene	5.57	61	9677	0.078	ppbv #	89
32) 1,1,1-Trichloroethane	6.54	97	10073	0.060	ppbv #	22
35) Carbon Tetrachloride	7.05	117	10272	0.057	ppbv #	93
36) Benzene	6.93	78	7881	0.033	ppbv	95
37) 1,2-Dichloroethane	6.34	62	5363	0.031	ppbv #	86
39) 1,2-Dichloropropane	7.21	63	671001	6.185	ppbv #	22
42) Bromodichloromethane	7.84	83	7028	0.034	ppbv #	80
44) 2,2,4-Trimethylpentane	7.91	57	15838	0.034	ppbv #	40
45) t-1,3-Dichloropropene	9.33	75	4696	0.040	ppbv	98
46) cis-1,3-Dichloropropene	8.76	75	6336	0.045	ppbv #	55
47) 1,1,2-Trichloroethane	9.53	97	5776	0.059	ppbv #	80
48) Dibromochloromethane	10.36	129	6107	0.040	ppbv #	4
49) Bromoform	13.11	173	6706	0.054	ppbv #	62
52) Tetrachloroethene	11.28	164	3296	0.041	ppbv #	78
53) Toluene	9.86	91	8795	0.033	ppbv #	1
57) Chlorobenzene	12.21	112	16258	0.086	ppbv #	60
60) o-Xylene	13.76	91	18218	0.063	ppbv	94
62) Isopropylbenzene	14.74	105	25377	0.067	ppbv #	87

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101619\
Quantitation Report (Not Reviewed)

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ClientSampleId :
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Oct 16 16:52:05 2019
QLast Update : Wed Oct 16 16:52:05 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,1,2,2-Tetrachloroethane	13.75	83	7777	0.033	ppbv #	25
64) n-propylbenzene	15.63	120	4115	0.043	ppbv #	1
72) 4-Ethyltoluene	15.91	105	14354	0.044	ppbv #	56
75) 1,3-Dichlorobenzene	17.08	146	16628	0.092	ppbv	75
78) Hexachloro-1,3-Butadiene	23.46	225	7157	0.059	ppbv #	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VL034302.D

Acq On : 16 Oct 2019 15:28

Operator : SY/AP

Sample : VSTDICC0.1

Misc : 400ml/MSVOA L

ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

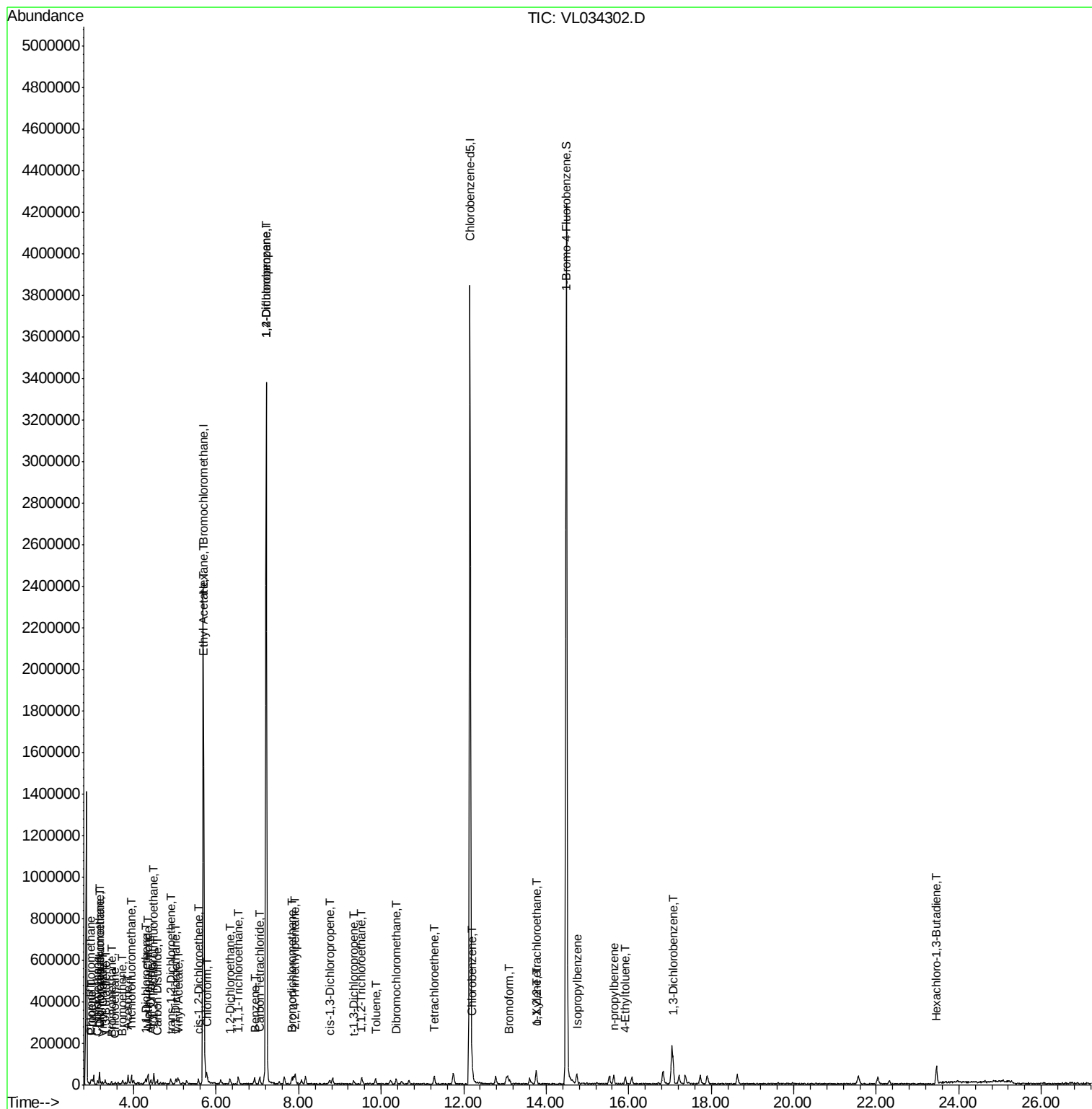
Quant Time: Oct 16 16:59:40 2019

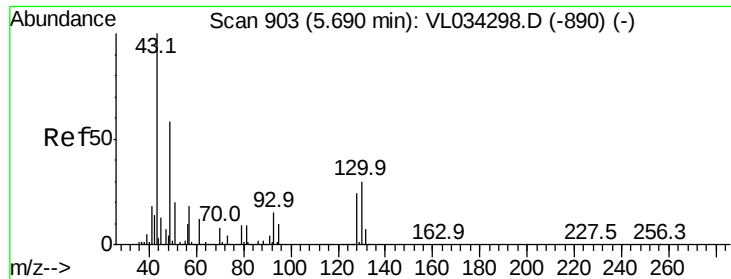
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_L\METHODS\VL101619AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LWed Oct 16 16:52:05 2019

QLast Update : Wed Oct 16 16:52:05 2019

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.00 min

Lab File: VL034302.D

Acq: 16 Oct 2019 15:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

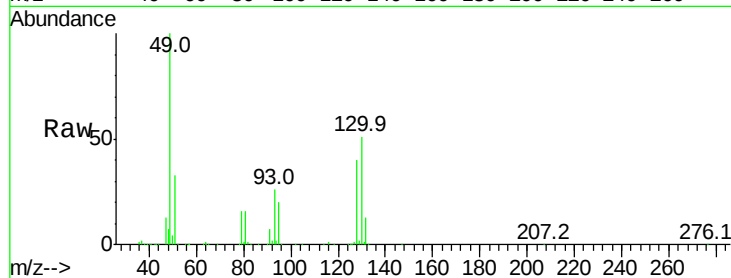
Tgt Ion: 49 Resp: 1151875

Ion Ratio Lower Upper

49 100

128 41.9 20.6 61.8

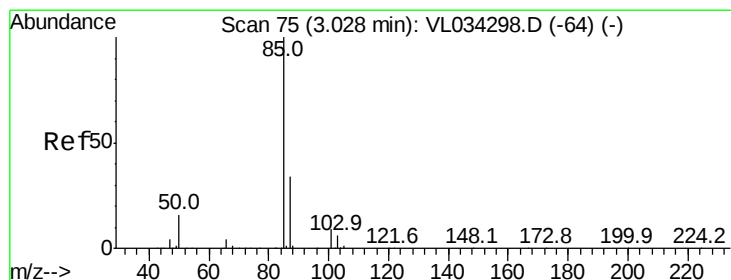
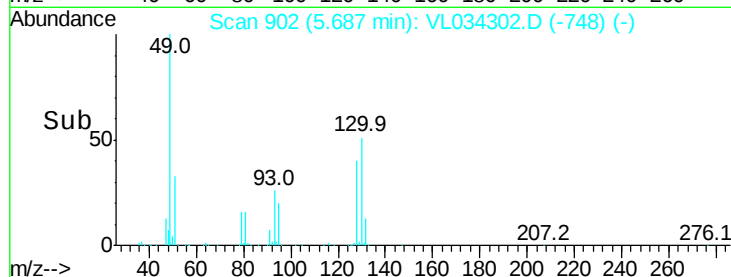
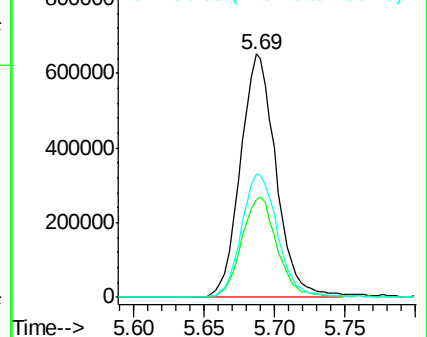
130 52.7 26.2 78.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.120 ppbv

RT: 3.17 min Scan# 118

Delta R.T. 0.14 min

Lab File: VL034302.D

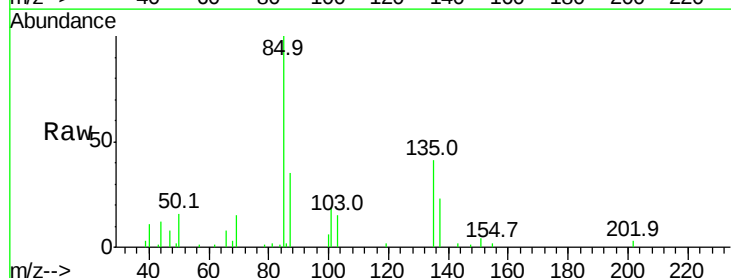
Acq: 16 Oct 2019 15:28

Tgt Ion: 85 Resp: 20384

Ion Ratio Lower Upper

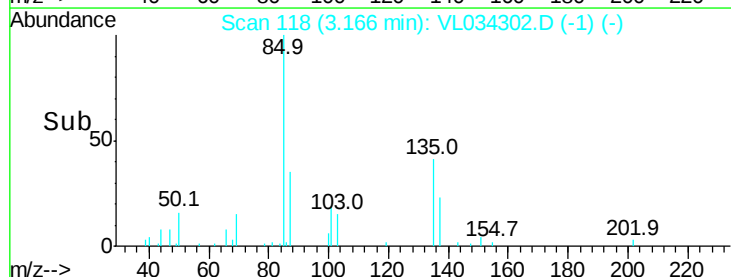
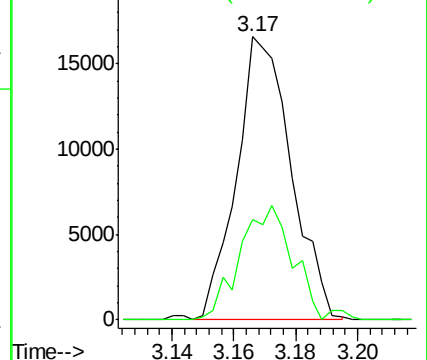
85 100

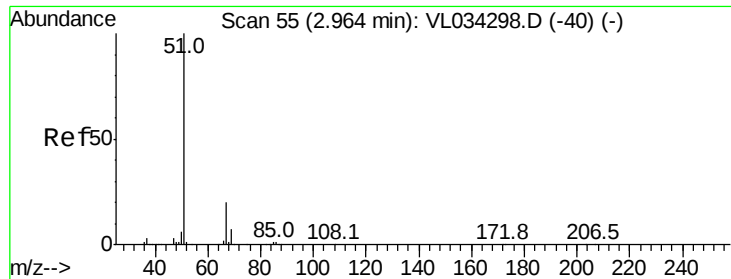
87 35.4 27.0 40.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.114 ppbv

RT: 2.96 min Scan# 55

Delta R.T. -0.00 min

Lab File: VL034302.D

Acq: 16 Oct 2019 15:28

Instrument :

MSVOA_L

ClientSampleId :

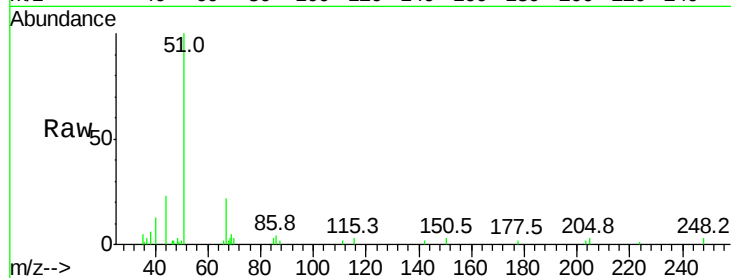
VSTDIC0.1

Tgt Ion: 51 Resp: 15450

Ion Ratio Lower Upper

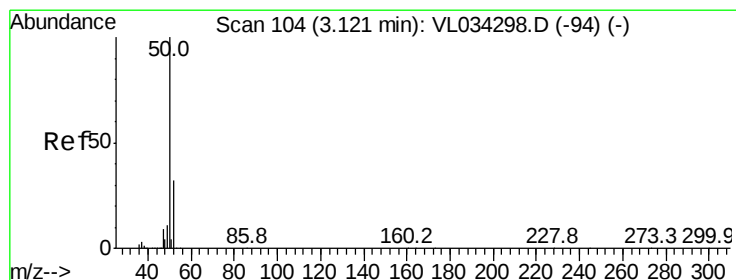
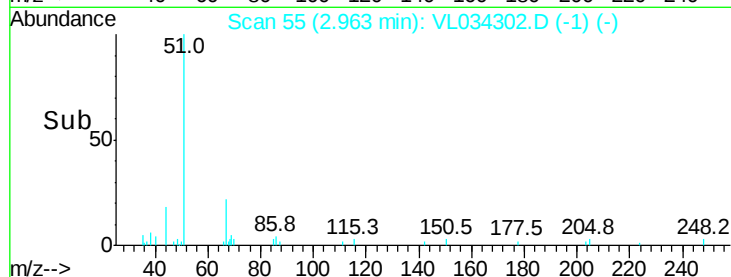
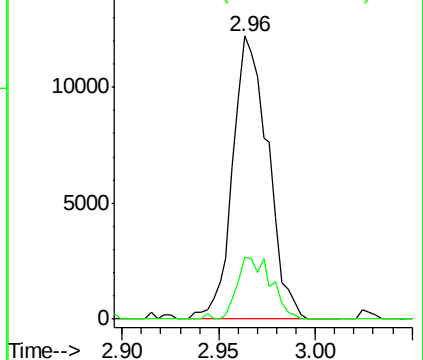
51 100

67 21.2 15.8 23.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.105 ppbv

RT: 3.12 min Scan# 103

Delta R.T. -0.00 min

Lab File: VL034302.D

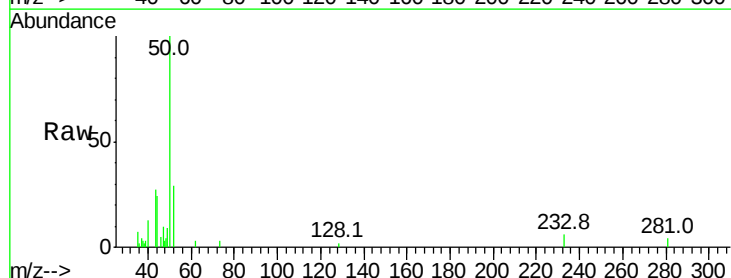
Acq: 16 Oct 2019 15:28

Tgt Ion: 50 Resp: 8331

Ion Ratio Lower Upper

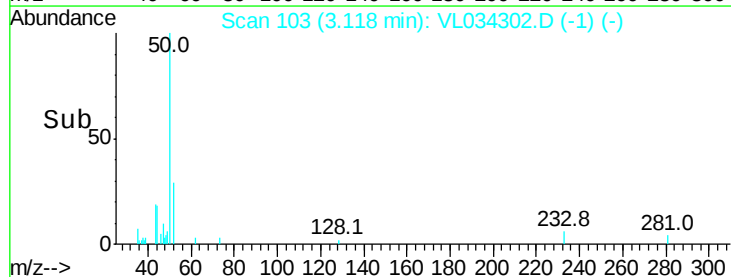
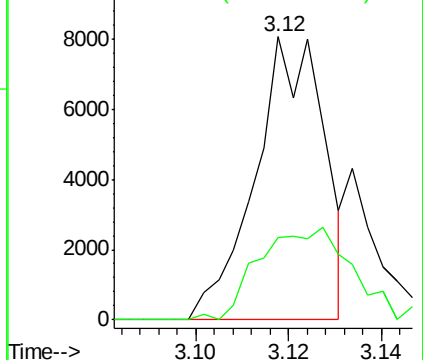
50 100

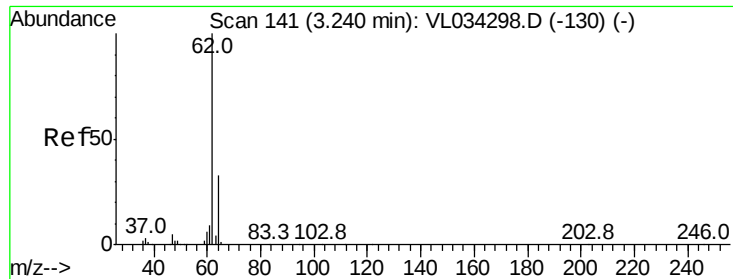
52 29.1 25.4 38.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.108 ppbv

RT: 3.24 min Scan# 141

Delta R.T. -0.00 min

Lab File: VL034302.D

Acq: 16 Oct 2019 15:28

Instrument :

MSVOA_L

ClientSampleId :

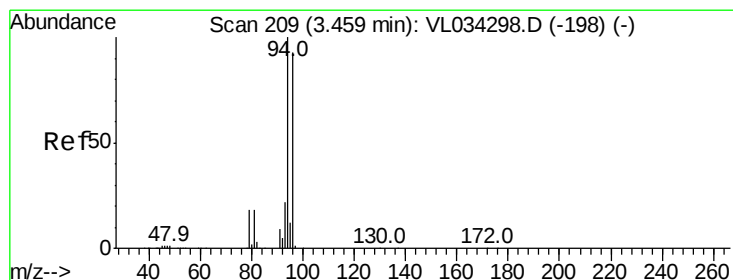
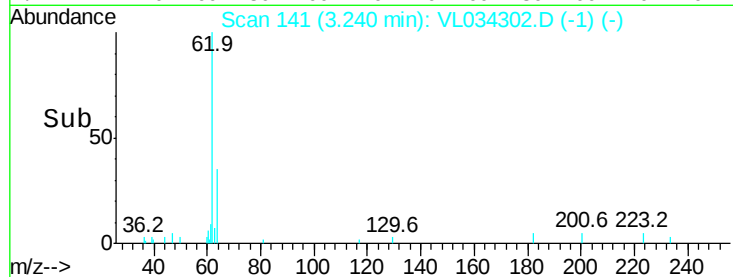
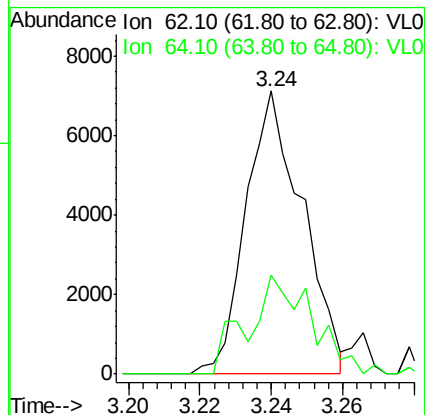
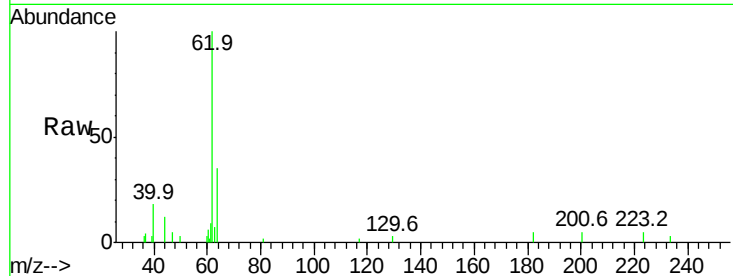
VSTDIC0.1

Tgt Ion: 62 Resp: 7810

Ion Ratio Lower Upper

62 100

64 35.2 26.0 39.0



#6

Bromomethane

Concen: 0.070 ppbv

RT: 3.46 min Scan# 209

Delta R.T. -0.00 min

Lab File: VL034302.D

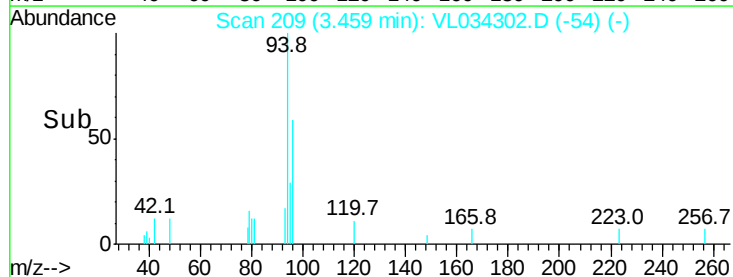
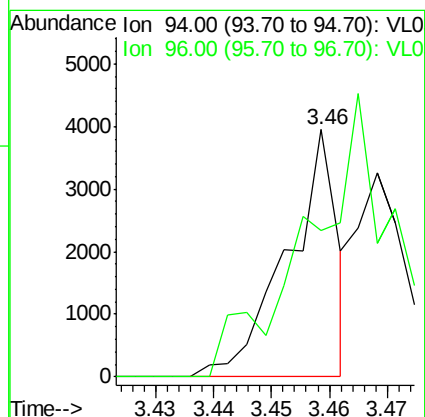
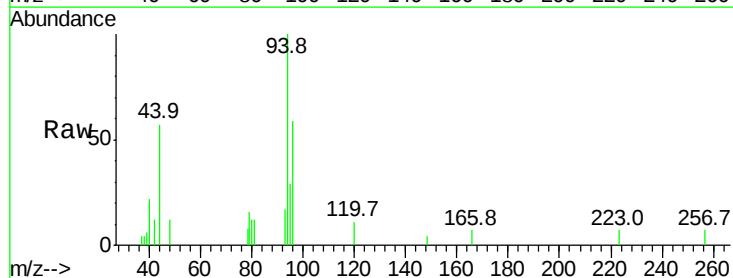
Acq: 16 Oct 2019 15:28

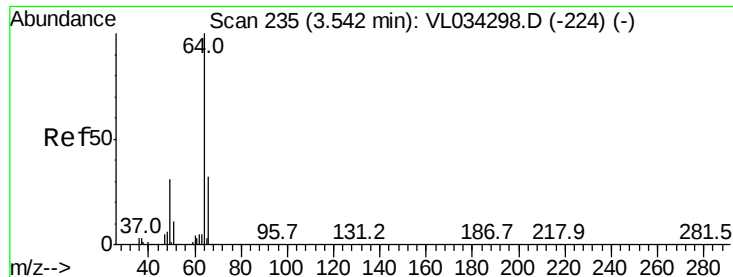
Tgt Ion: 94 Resp: 2373

Ion Ratio Lower Upper

94 100

96 59.3 74.6 112.0#





#7

Chloroethane

Concen: 0.080 ppbv

RT: 3.54 min Scan# 235

Delta R.T. -0.00 min

Lab File: VL034302.D

Acq: 16 Oct 2019 15:28

Instrument :

MSVOA_L

ClientSampleId :

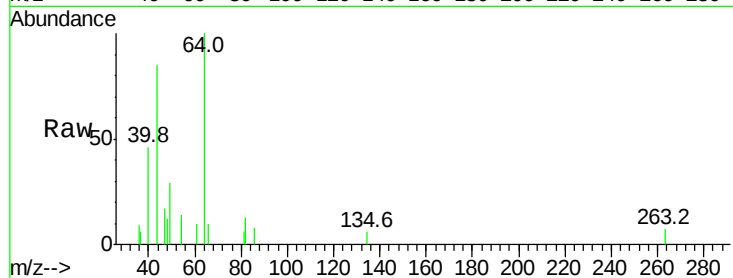
VSTDIC0.1

Tgt Ion: 64 Resp: 2035

Ion Ratio Lower Upper

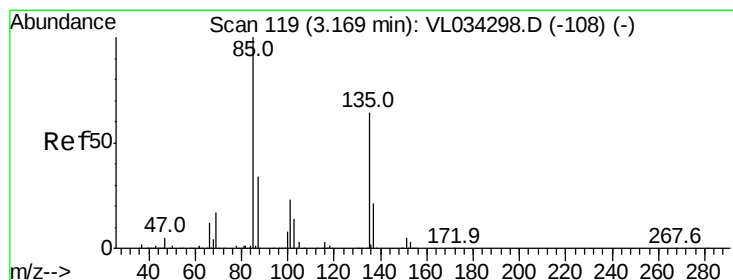
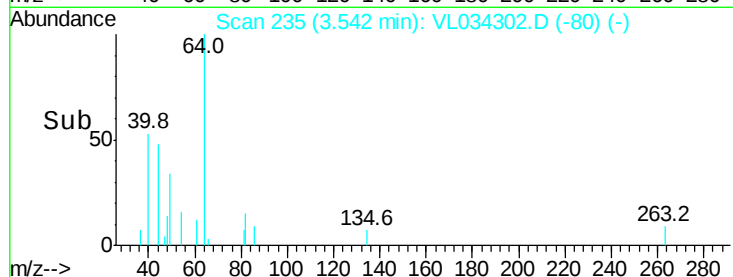
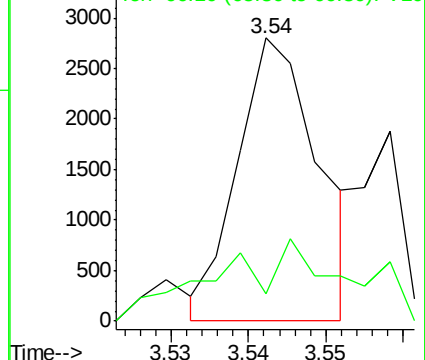
64 100

66 9.6 25.4 38.0#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.136 ppbv

RT: 3.17 min Scan# 118

Delta R.T. -0.00 min

Lab File: VL034302.D

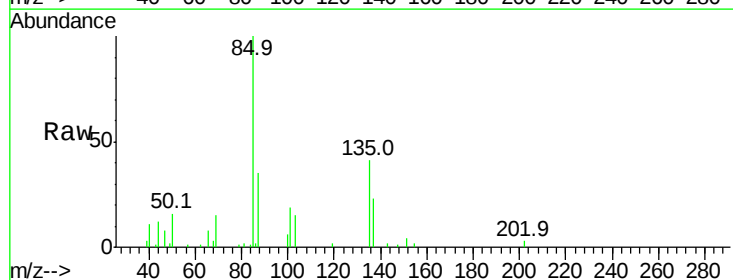
Acq: 16 Oct 2019 15:28

Tgt Ion: 85 Resp: 20384

Ion Ratio Lower Upper

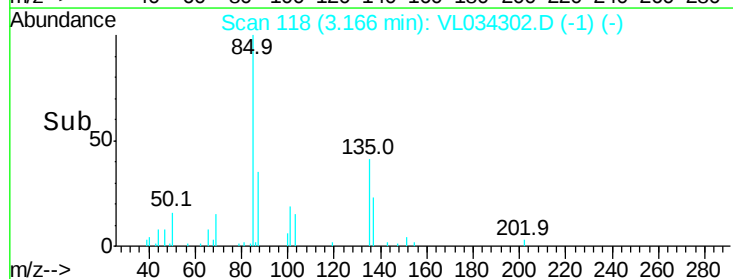
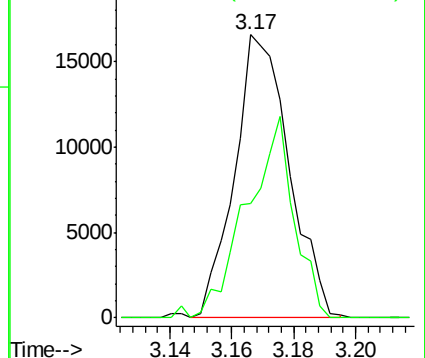
85 100

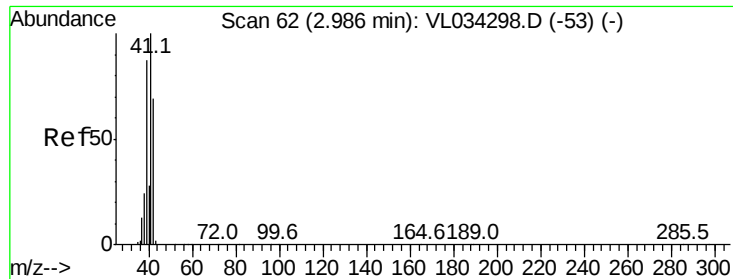
135 61.5 50.2 75.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.036 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.01 min

Lab File: VL034302.D

Acq: 16 Oct 2019 15:28

Instrument :

MSVOA_L

ClientSampleId :

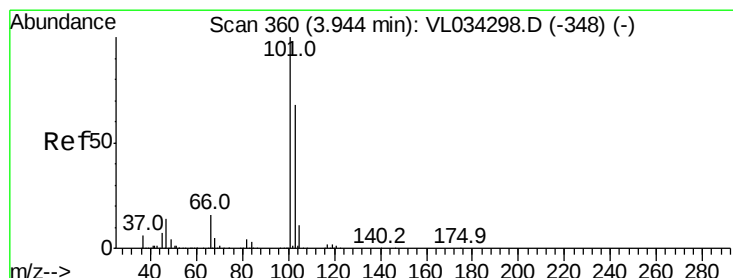
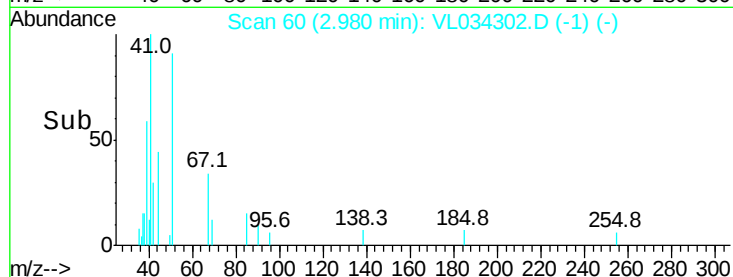
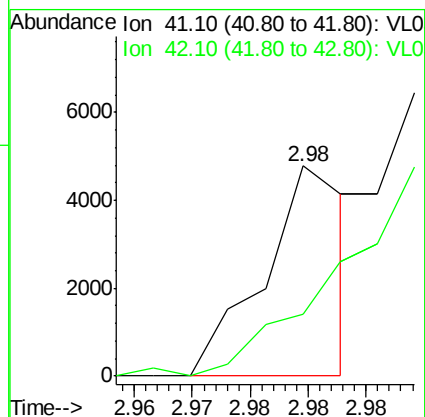
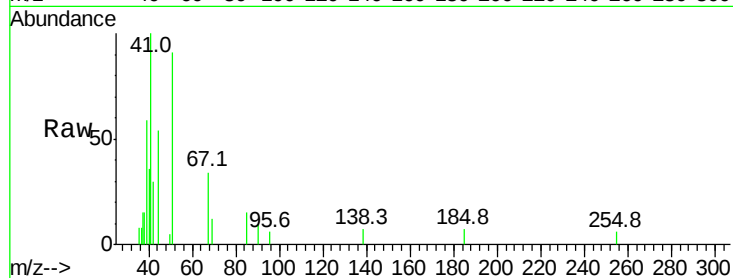
VSTDIC0.1

Tgt Ion: 41 Resp: 2400

Ion Ratio Lower Upper

41 100

42 77.2 53.9 80.9



#11

Trichlorofluoromethane

Concen: 0.149 ppbv

RT: 3.95 min Scan# 362

Delta R.T. 0.01 min

Lab File: VL034302.D

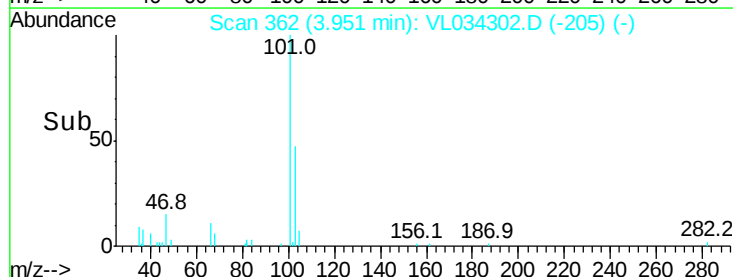
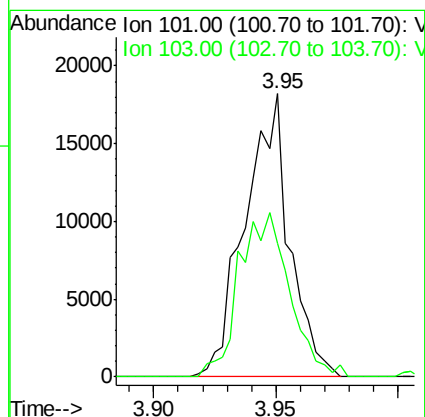
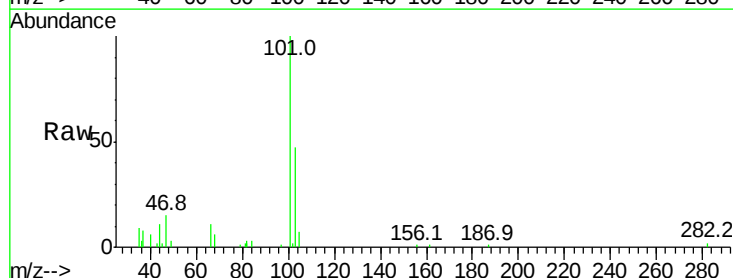
Acq: 16 Oct 2019 15:28

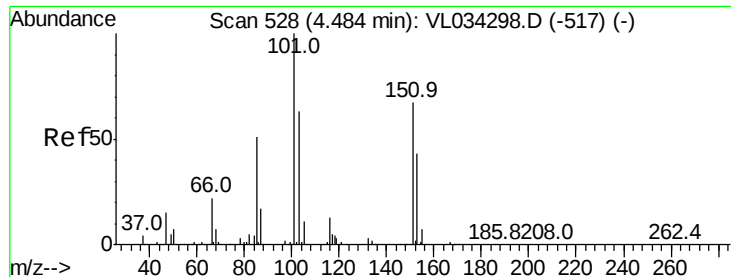
Tgt Ion: 101 Resp: 23038

Ion Ratio Lower Upper

101 100

103 46.2 54.5 81.7#





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.145 ppbv

RT: 4.49 min Scan# 530

Delta R.T. 0.01 min

Lab File: VL034302.D

Acq: 16 Oct 2019 15:28

Instrument :

MSVOA_L

ClientSampleId :

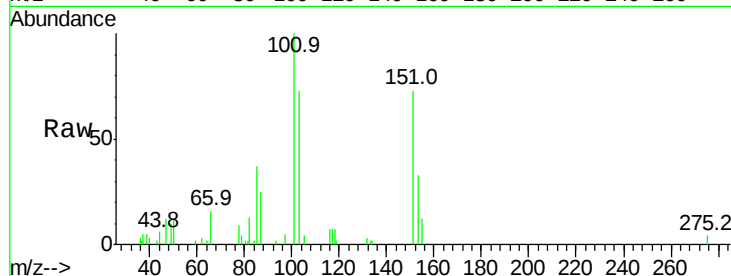
VSTDIC0.1

Tgt Ion:101 Resp: 14709

Ion Ratio Lower Upper

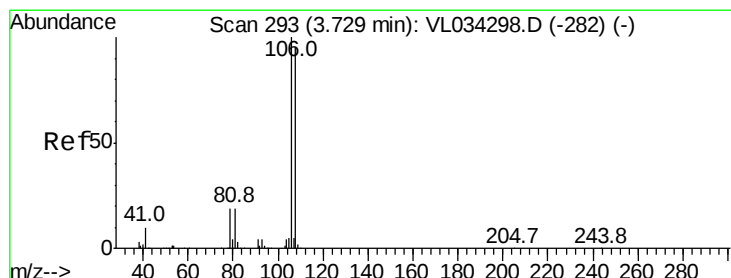
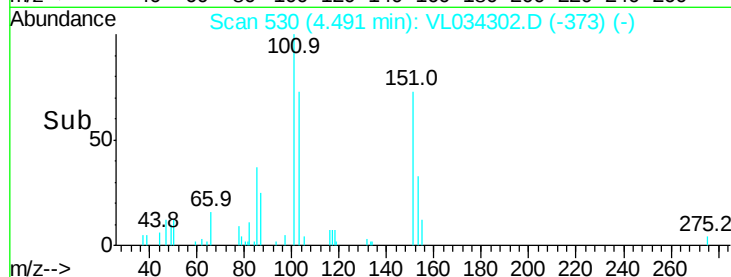
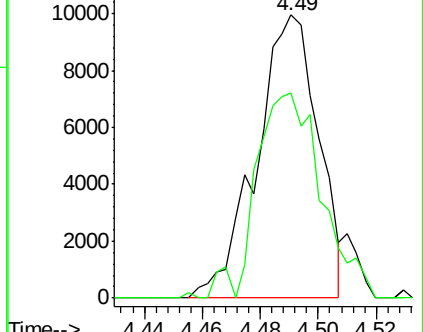
101 100

151 77.0 57.4 86.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#14

Bromoethene

Concen: 0.059 ppbv

RT: 3.73 min Scan# 293

Delta R.T. -0.00 min

Lab File: VL034302.D

Acq: 16 Oct 2019 15:28

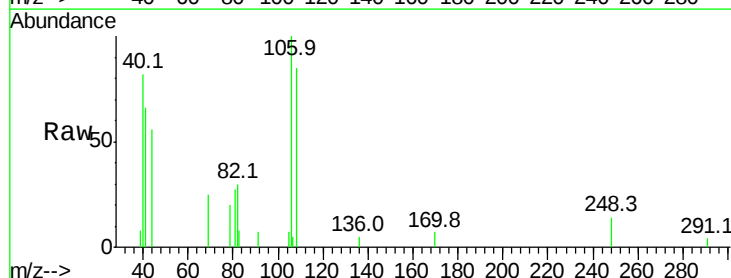
Tgt Ion:108 Resp: 2460

Ion Ratio Lower Upper

108 100

106 0.0 84.8 127.2#

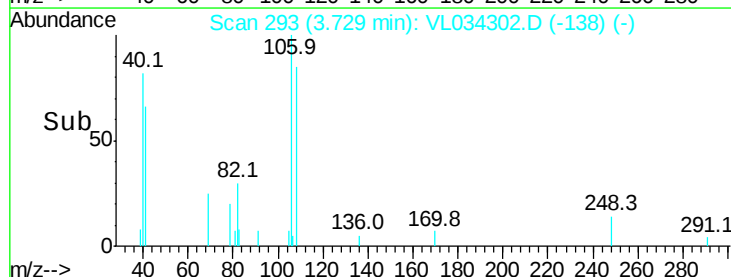
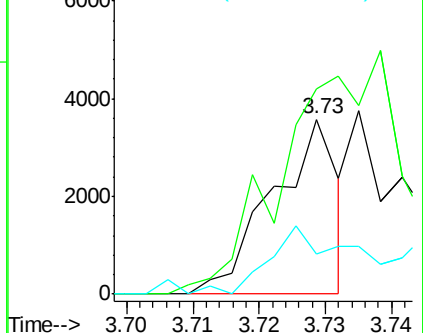
79 75.8 17.0 25.4#

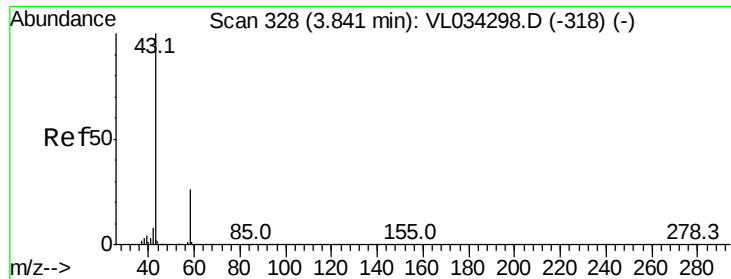


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 0.254 ppbv

RT: 3.86 min Scan# 335

Delta R.T. 0.02 min

Lab File: VL034302.D

Acq: 16 Oct 2019 15:28

Instrument :

MSVOA_L

ClientSampleId :

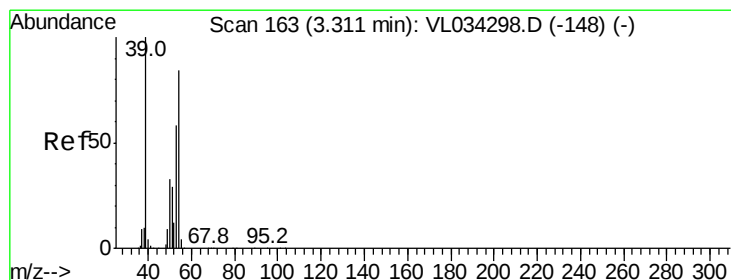
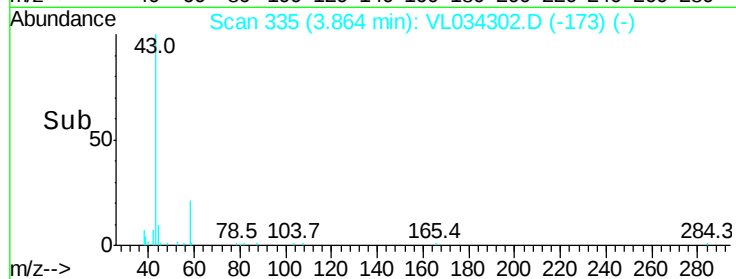
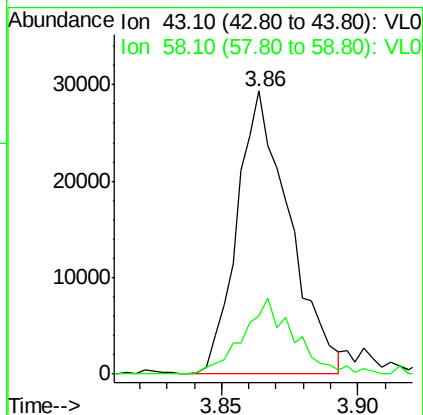
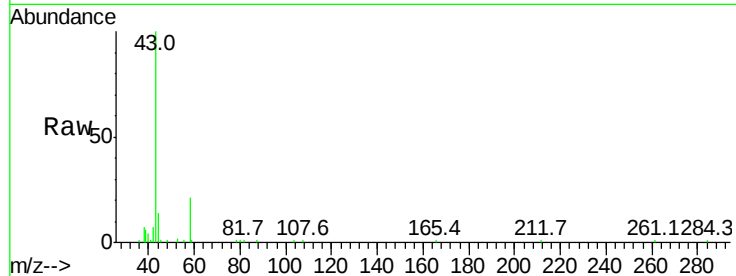
VSTDIC0.1

Tgt Ion: 43 Resp: 39145

Ion Ratio Lower Upper

43 100

58 26.9 20.4 30.6



#16

1,3-Butadiene

Concen: 0.105 ppbv

RT: 3.31 min Scan# 162

Delta R.T. -0.00 min

Lab File: VL034302.D

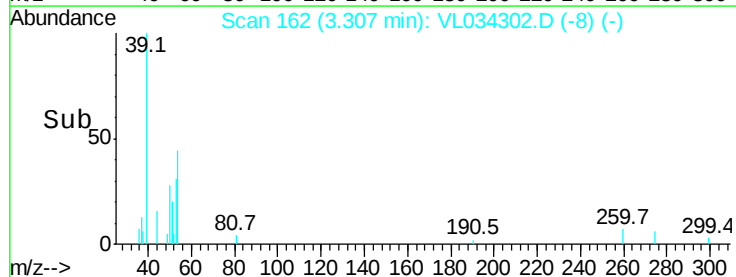
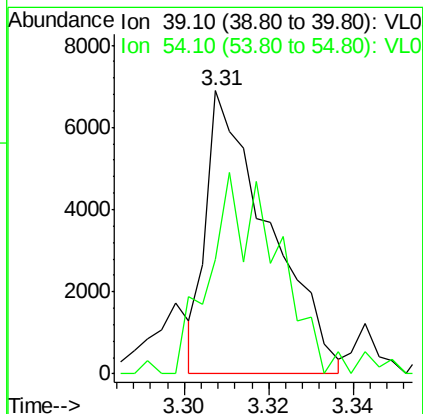
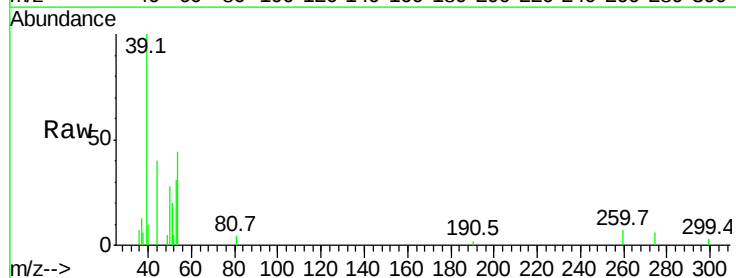
Acq: 16 Oct 2019 15:28

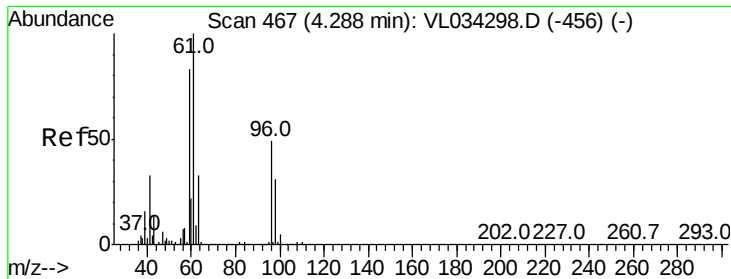
Tgt Ion: 39 Resp: 7062

Ion Ratio Lower Upper

39 100

54 80.1 63.9 95.9





#18

1,1-Dichloroethene

Concen: 0.105 ppbv

RT: 4.29 min Scan# 468

Delta R.T. 0.00 min

Lab File: VL034302.D

Acq: 16 Oct 2019 15:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

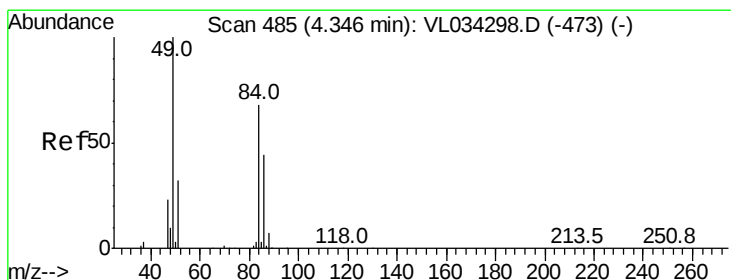
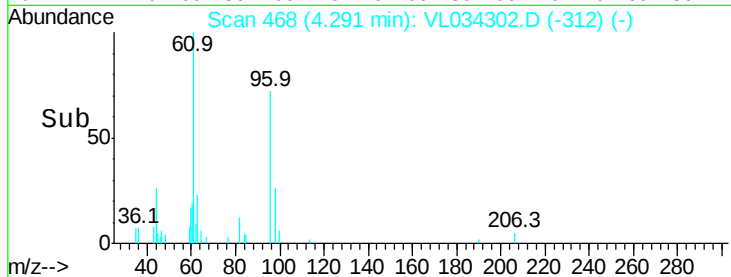
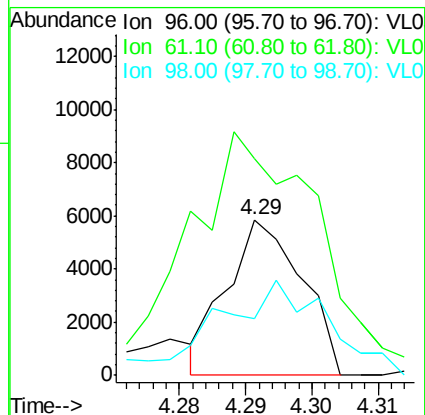
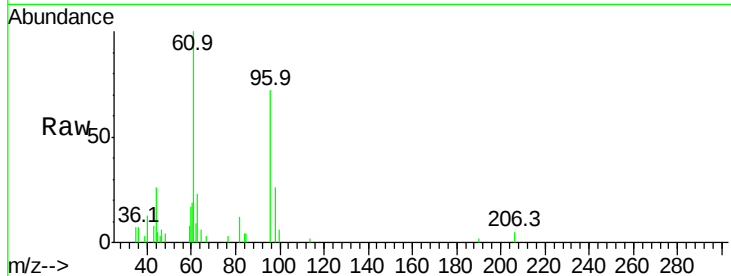
Tgt Ion: 96 Resp: 4624

Ion Ratio Lower Upper

96 100

61 89.0 164.5 246.7#

98 17.2 51.7 77.5#



#20

Methylene Chloride

Concen: 0.092 ppbv

RT: 4.34 min Scan# 484

Delta R.T. -0.00 min

Lab File: VL034302.D

Acq: 16 Oct 2019 15:28

Tgt Ion: 84 Resp: 4084

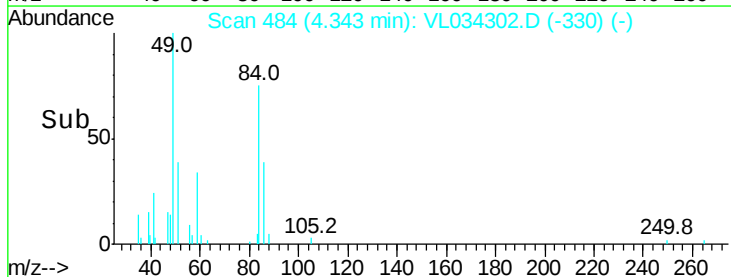
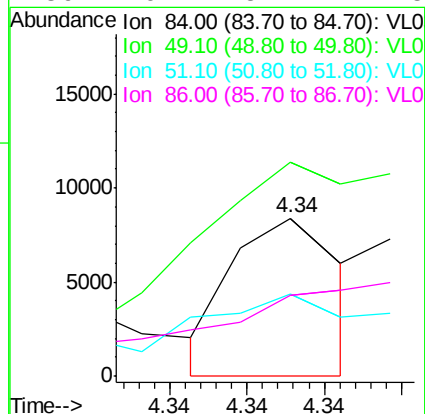
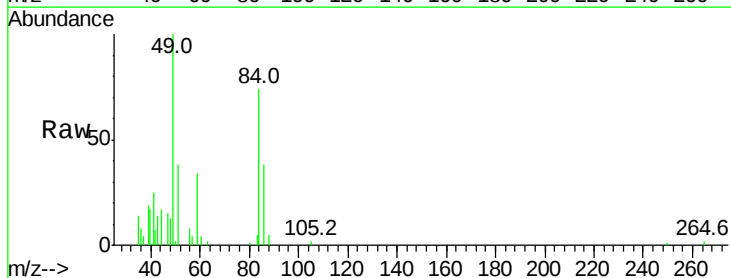
Ion Ratio Lower Upper

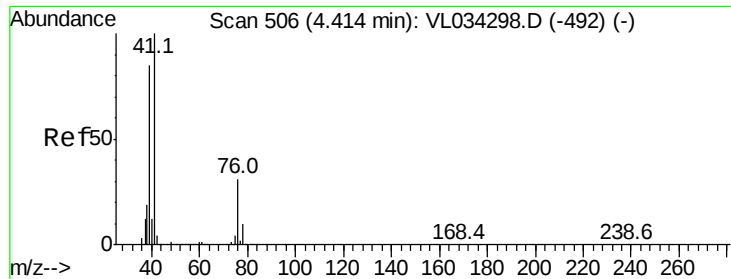
84 100

49 55.1 118.5 177.7#

51 18.6 38.8 58.2#

86 29.2 51.7 77.5#





#21

Allyl Chloride

Concen: 0.094 ppbv

RT: 4.42 min Scan# 507

Delta R.T. 0.00 min

Lab File: VL034302.D

Acq: 16 Oct 2019 15:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

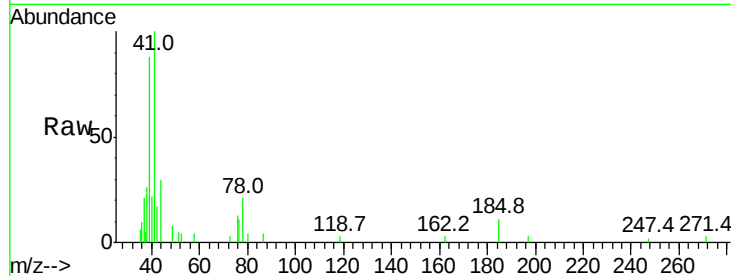
Tgt Ion: 41 Resp: 8189

Ion Ratio Lower Upper

41 100

76 28.6 22.8 34.2

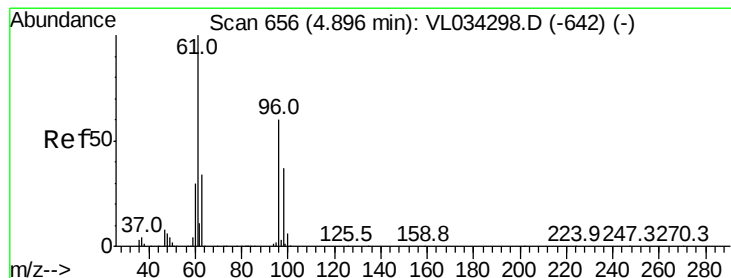
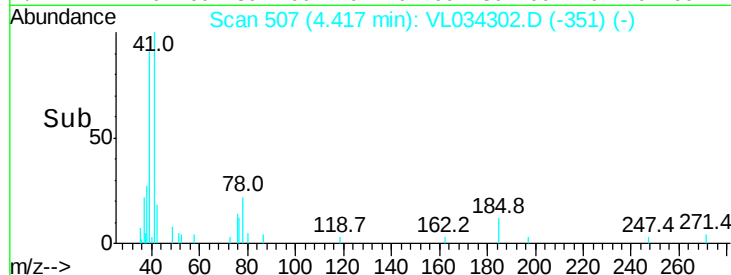
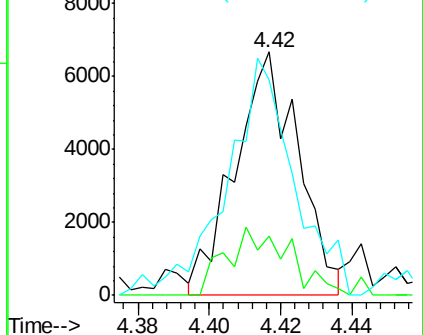
39 107.2 66.0 99.0#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 0.117 ppbv

RT: 4.90 min Scan# 657

Delta R.T. 0.00 min

Lab File: VL034302.D

Acq: 16 Oct 2019 15:28

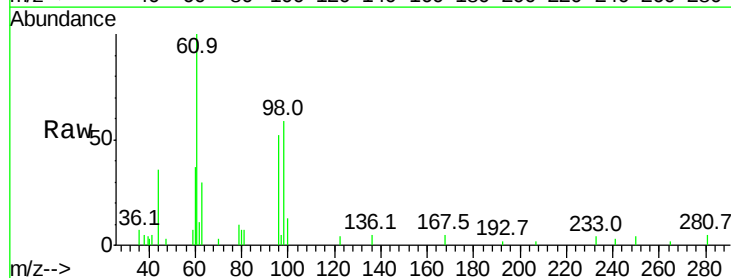
Tgt Ion: 96 Resp: 5176

Ion Ratio Lower Upper

96 100

61 176.6 133.8 200.6

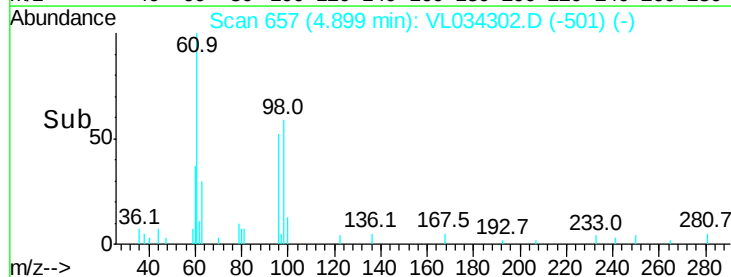
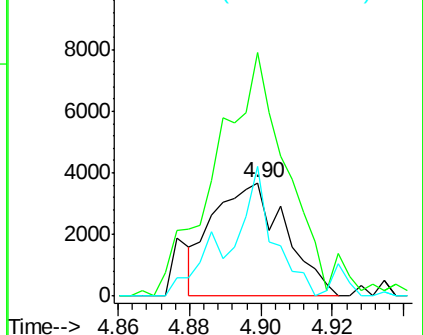
98 98.9 49.4 74.0#

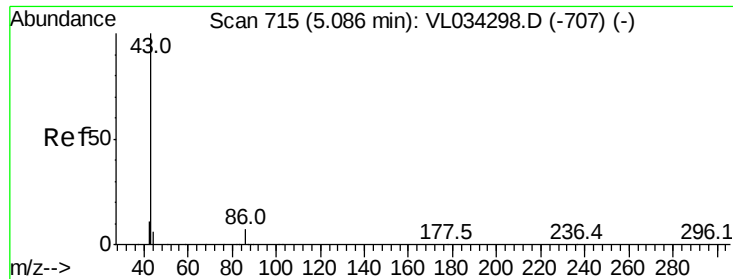


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 0.081 ppbv

RT: 5.09 min Scan# 717

Delta R.T. 0.01 min

Lab File: VL034302.D

Acq: 16 Oct 2019 15:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion: 43 Resp: 18515

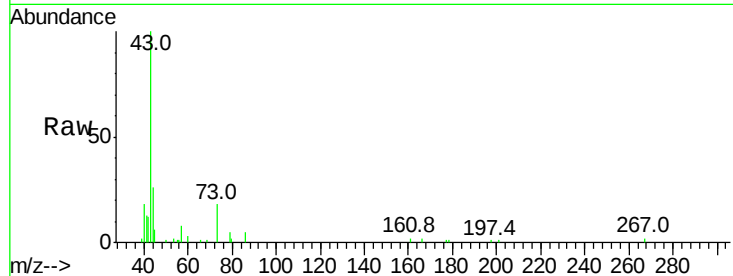
Ion Ratio Lower Upper

43 100

86 5.6 5.0 7.4

42 12.1 8.6 13.0

44 21.9 4.8 7.2#

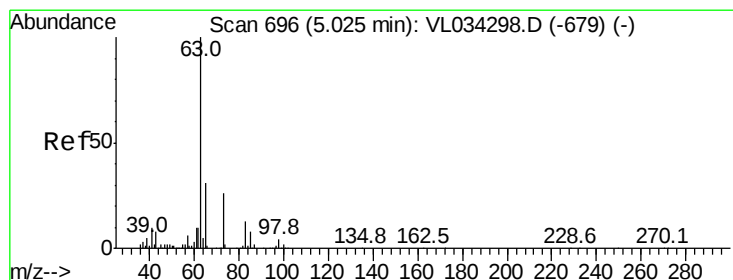
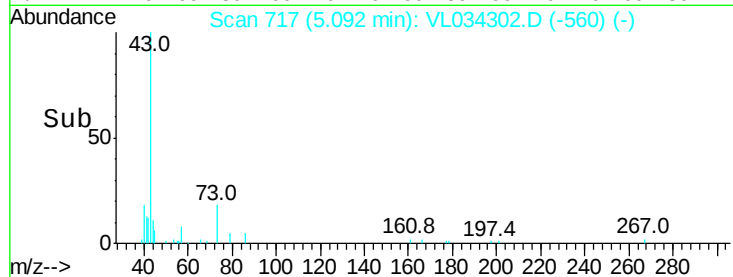
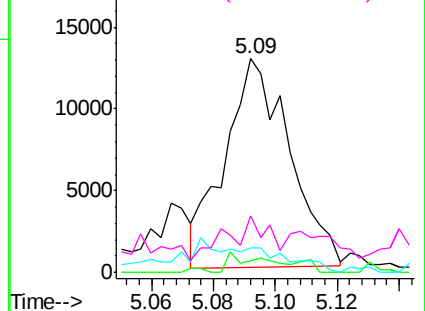


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 0.062 ppbv

RT: 5.02 min Scan# 695

Delta R.T. -0.00 min

Lab File: VL034302.D

Acq: 16 Oct 2019 15:28

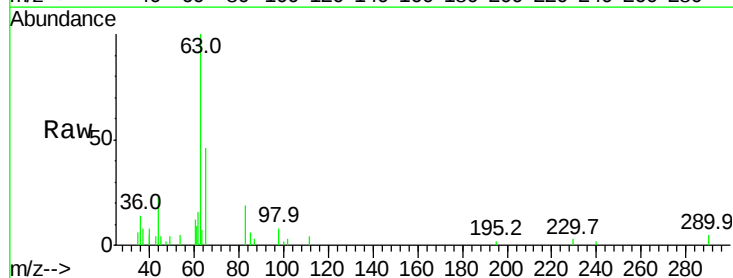
Tgt Ion: 63 Resp: 9494

Ion Ratio Lower Upper

63 100

98 7.1 2.0 6.0#

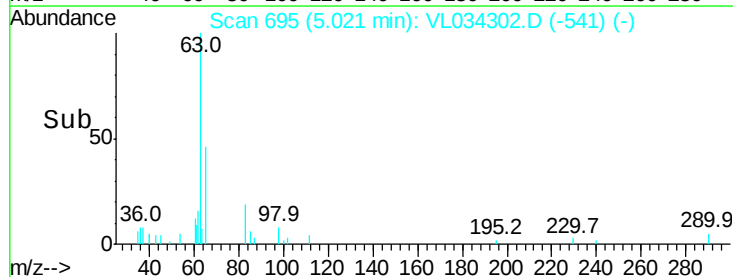
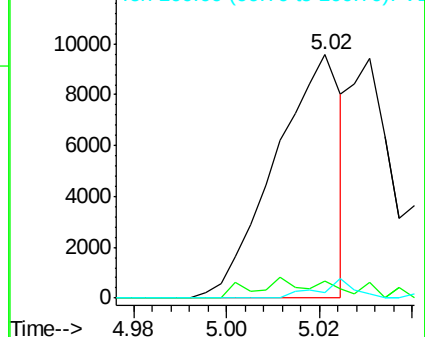
100 2.0 1.1 3.5

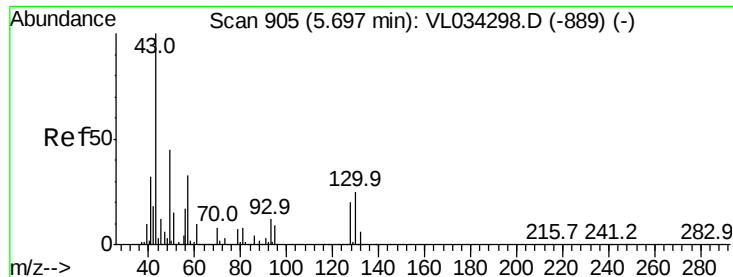


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 0.048 ppbv

RT: 5.71 min Scan# 908

Delta R.T. 0.01 min

Lab File: VL034302.D

Acq: 16 Oct 2019 15:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion: 43 Resp: 13889

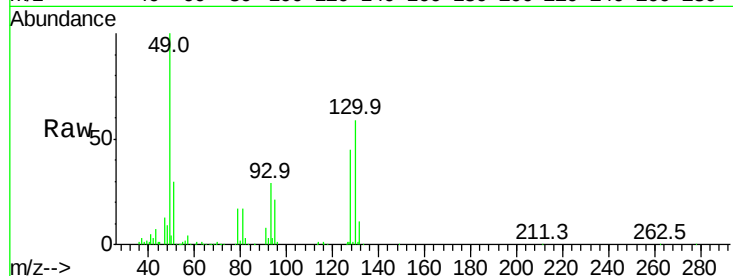
Ion Ratio Lower Upper

43 100

45 0.0 8.3 12.5#

61 0.0 7.7 11.5#

70 16.6 5.4 8.2#



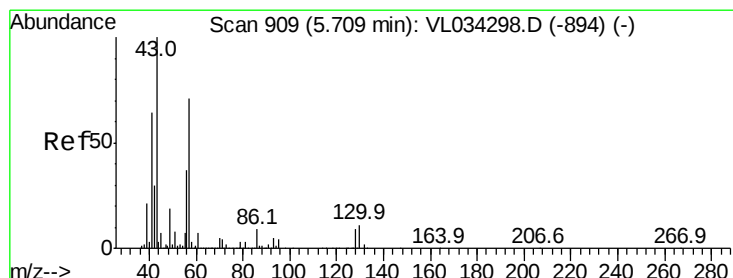
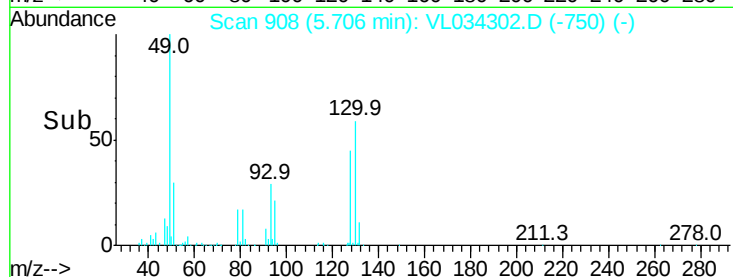
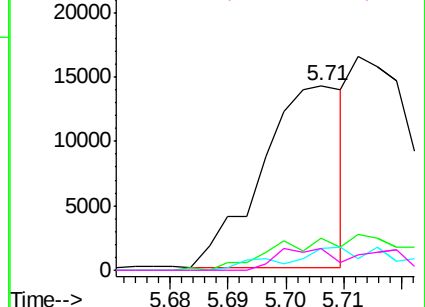
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.047 ppbv

RT: 5.70 min Scan# 907

Delta R.T. -0.01 min

Lab File: VL034302.D

Acq: 16 Oct 2019 15:28

Tgt Ion: 57 Resp: 5760

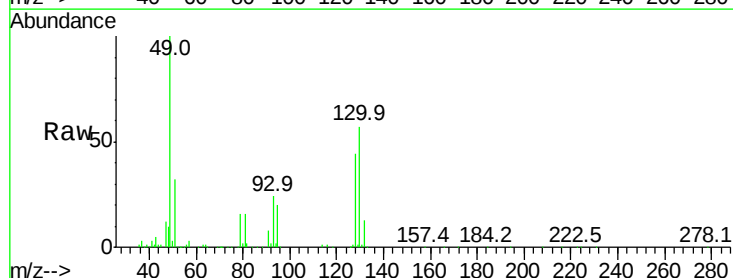
Ion Ratio Lower Upper

57 100

41 0.0 76.5 114.7#

43 0.0 188.5 282.7#

56 0.0 42.8 64.2#



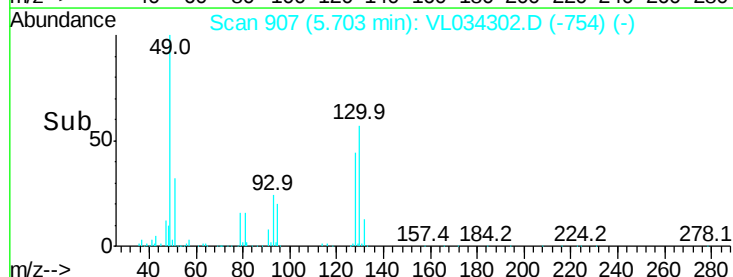
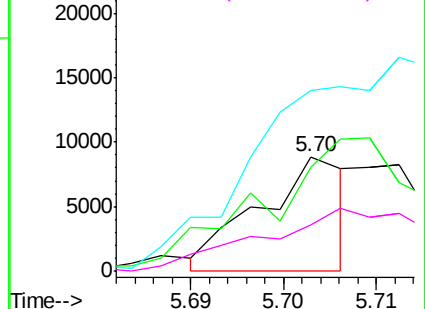
Abundance

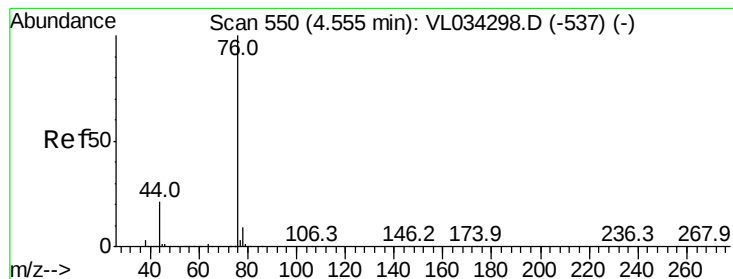
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 0.089 ppbv

RT: 4.56 min Scan# 551

Delta R.T. 0.00 min

Lab File: VL034302.D

Acq: 16 Oct 2019 15:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

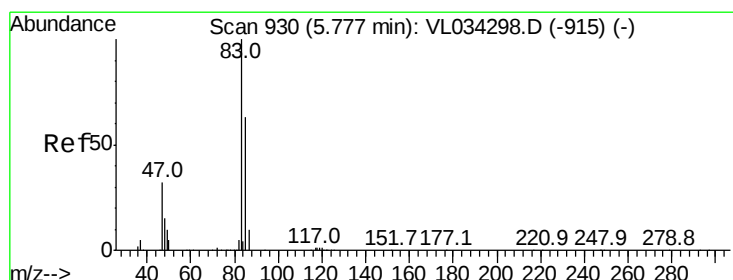
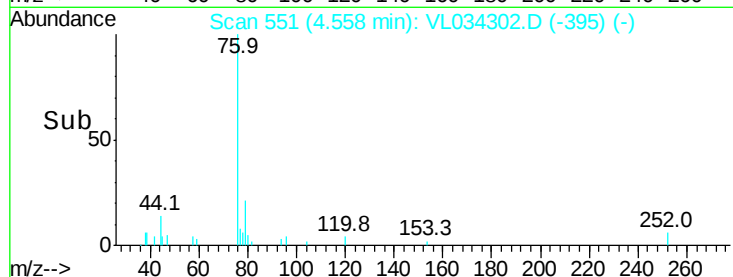
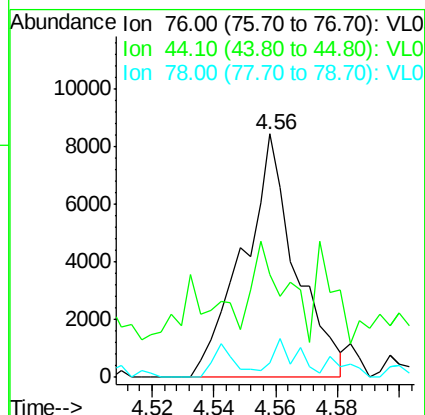
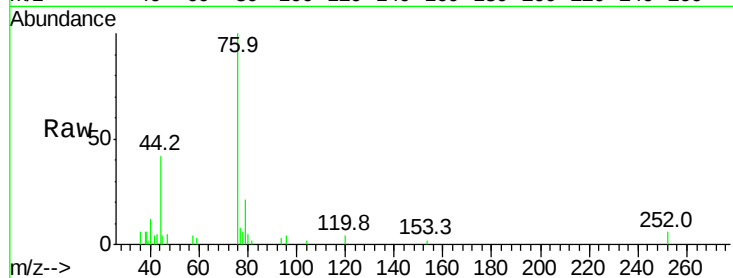
Tgt Ion: 76 Resp: 9966

Ion Ratio Lower Upper

76 100

44 78.4 17.3 25.9#

78 20.8 7.8 11.6#



#29

Chloroform

Concen: 0.131 ppbv

RT: 5.77 min Scan# 927

Delta R.T. -0.01 min

Lab File: VL034302.D

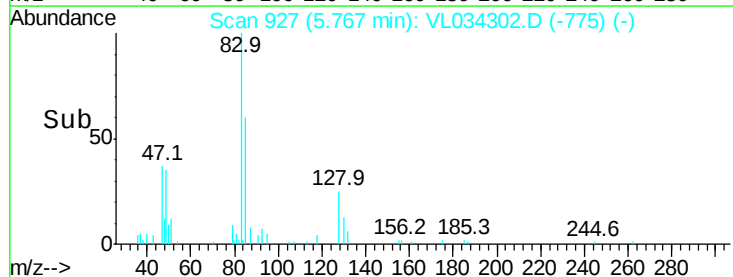
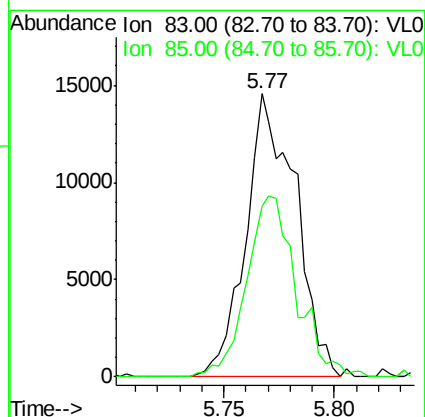
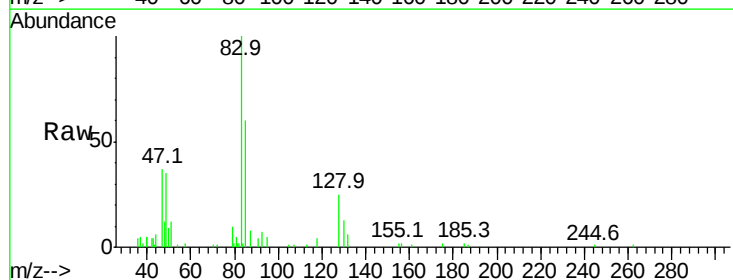
Acq: 16 Oct 2019 15:28

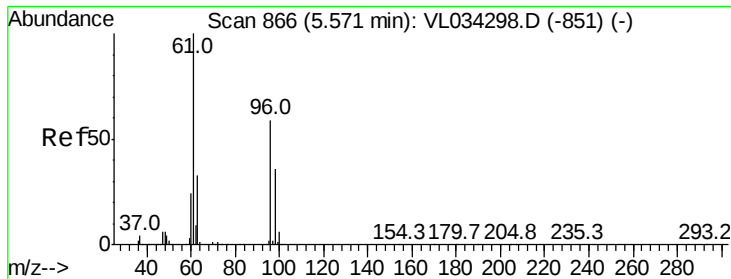
Tgt Ion: 83 Resp: 22696

Ion Ratio Lower Upper

83 100

85 60.5 50.5 75.7



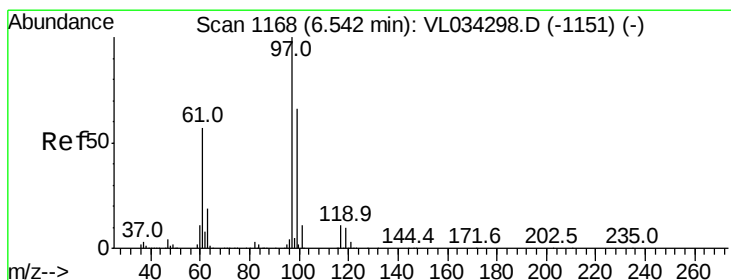
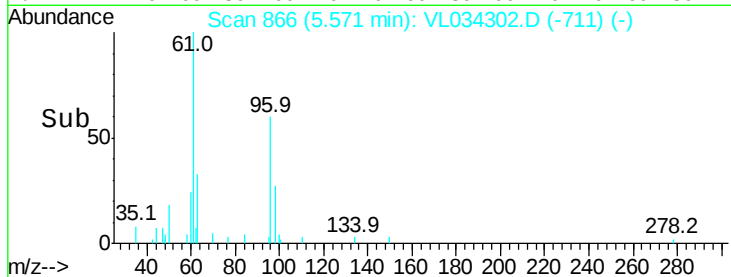
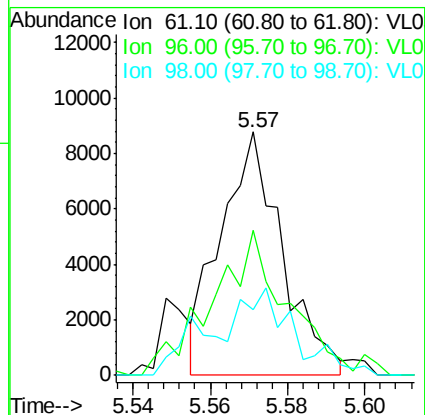
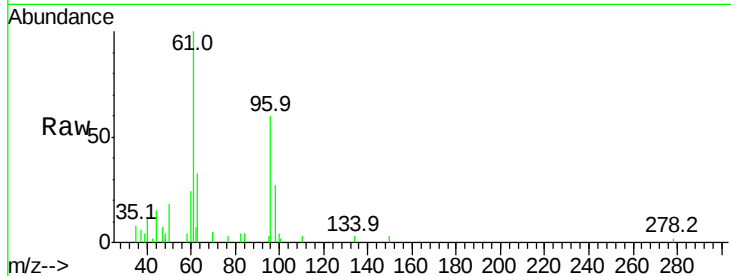


#31

cis-1,2-Dichloroethene
Concen: 0.078 ppbv
RT: 5.57 min Scan# 866
Delta R.T. -0.00 min
Lab File: VL034302.D
Acq: 16 Oct 2019 15:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

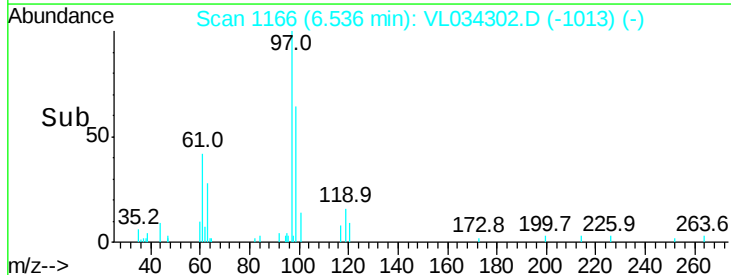
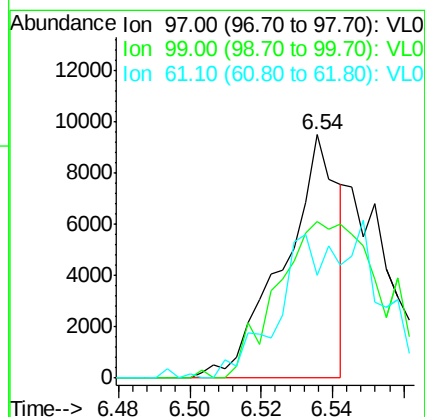
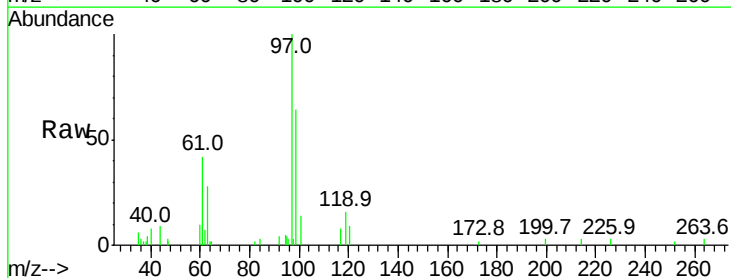
Tgt Ion: 61 Resp: 9677
Ion Ratio Lower Upper
61 100
96 55.5 47.5 71.3
98 24.0 28.8 43.2#

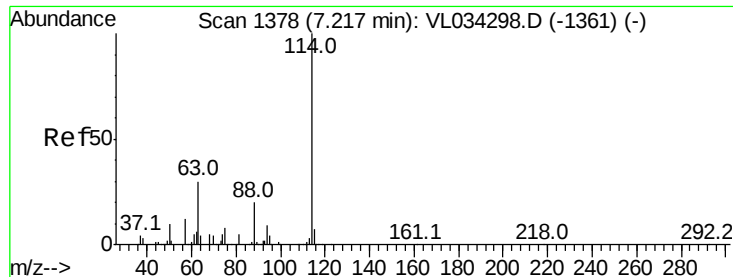


#32

1,1,1-Trichloroethane
Concen: 0.060 ppbv
RT: 6.54 min Scan# 1166
Delta R.T. -0.01 min
Lab File: VL034302.D
Acq: 16 Oct 2019 15:28

Tgt Ion: 97 Resp: 10073
Ion Ratio Lower Upper
97 100
99 129.3 52.6 78.8#
61 110.1 44.5 66.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.21 min Scan# 1377

Delta R.T. -0.00 min

Lab File: VL034302.D

Acq: 16 Oct 2019 15:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

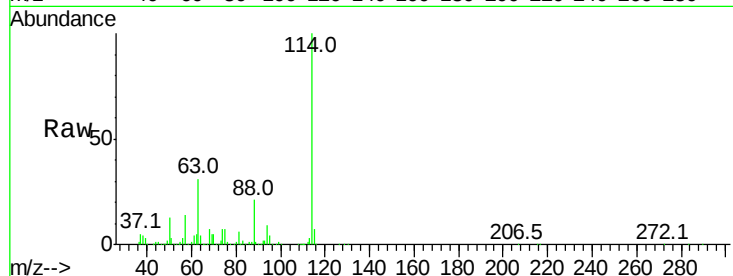
Tgt Ion:114 Resp: 2186135

Ion Ratio Lower Upper

114 100

63 30.8 25.2 37.8

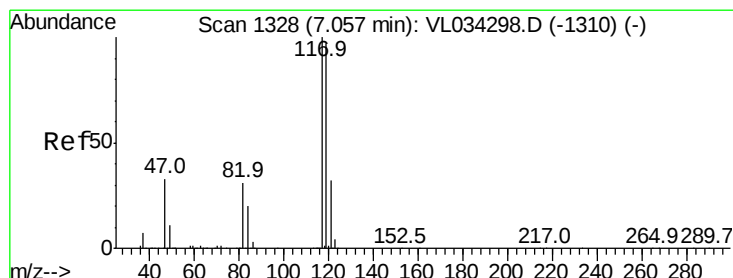
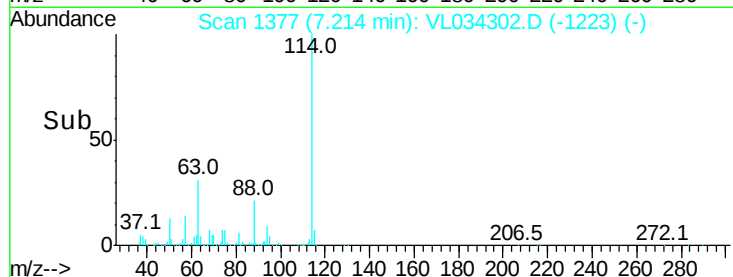
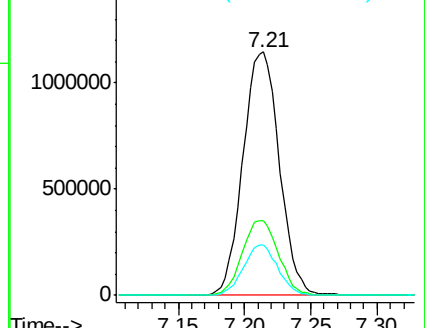
88 19.7 16.0 24.0



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#35

Carbon Tetrachloride

Concen: 0.057 ppbv

RT: 7.05 min Scan# 1327

Delta R.T. -0.00 min

Lab File: VL034302.D

Acq: 16 Oct 2019 15:28

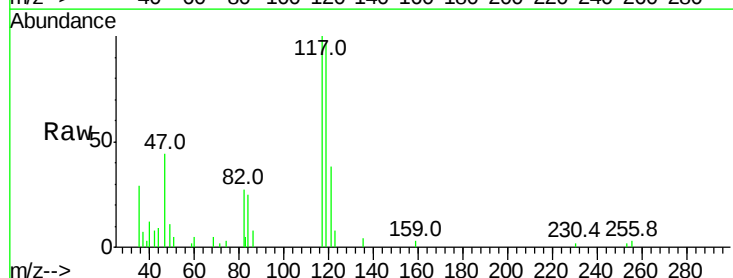
Tgt Ion:117 Resp: 10272

Ion Ratio Lower Upper

117 100

119 92.3 77.3 115.9

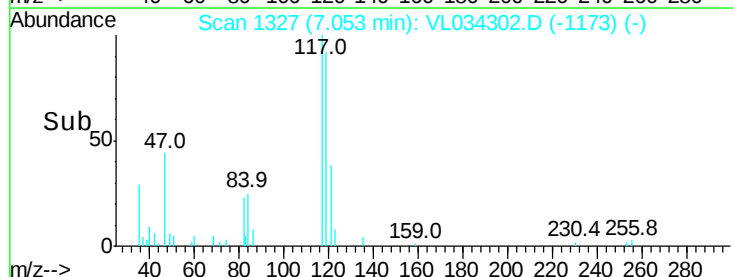
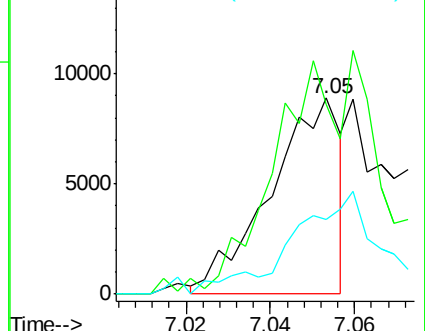
121 39.9 25.5 38.3#

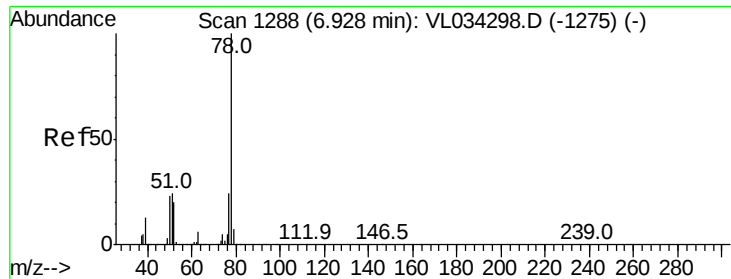


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#36

Benzene

Concen: 0.033 ppbv

RT: 6.93 min Scan# 1289

Delta R.T. 0.00 min

Lab File: VL034302.D

Acq: 16 Oct 2019 15:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

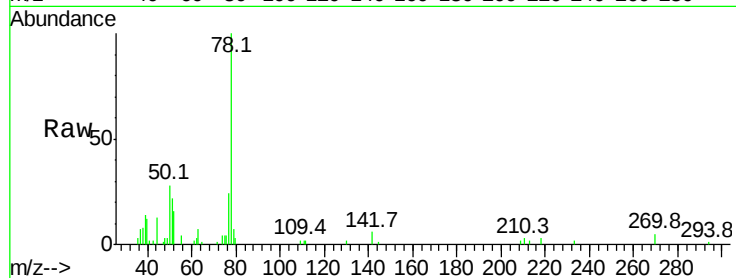
Tgt Ion: 78 Resp: 7881

Ion Ratio Lower Upper

78 100

77 23.7 19.0 28.4

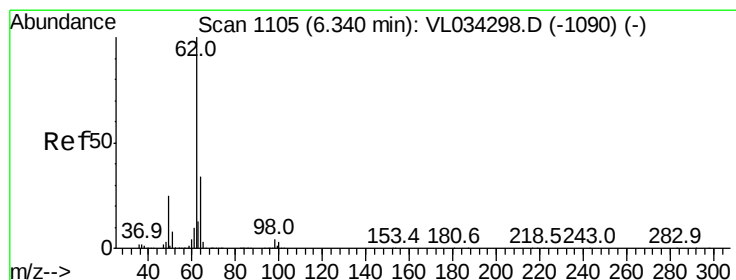
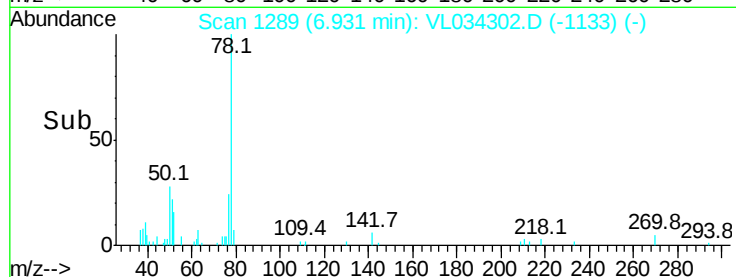
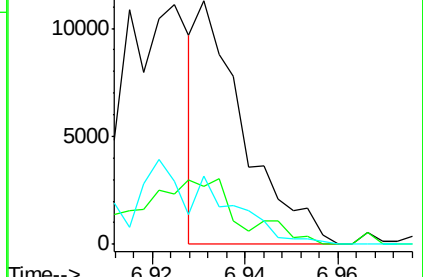
50 27.8 18.6 27.8



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#37

1,2-Dichloroethane

Concen: 0.031 ppbv

RT: 6.34 min Scan# 1104

Delta R.T. -0.00 min

Lab File: VL034302.D

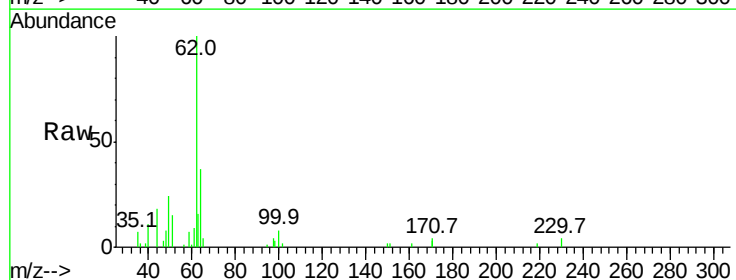
Acq: 16 Oct 2019 15:28

Tgt Ion: 62 Resp: 5363

Ion Ratio Lower Upper

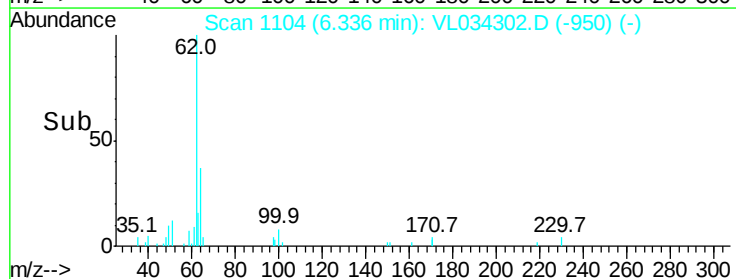
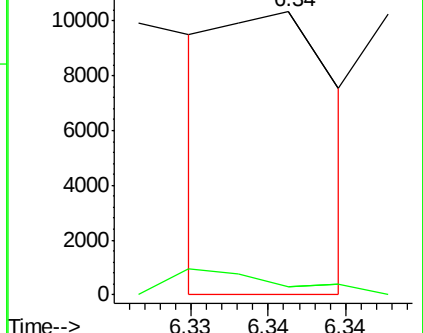
62 100

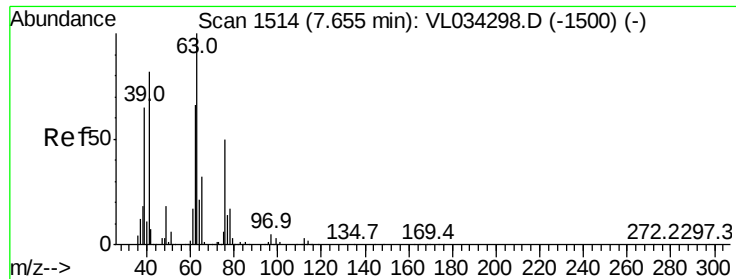
98 0.0 3.8 5.6#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#39

1,2-Dichloropropane

Concen: 6.185 ppbv

RT: 7.21 min Scan# 1376

Delta R.T. -0.44 min

Lab File: VL034302.D

Acq: 16 Oct 2019 15:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

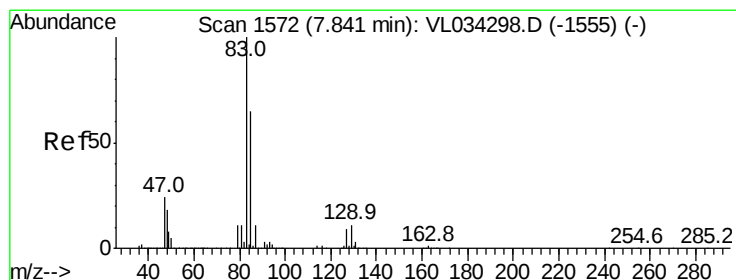
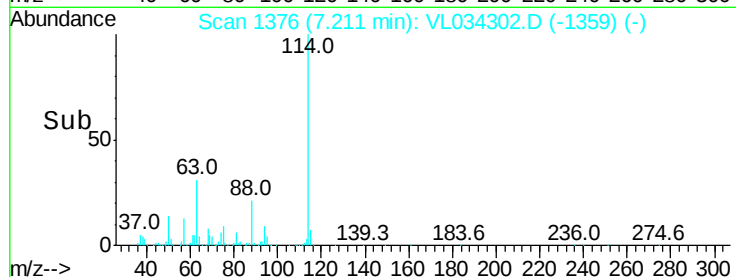
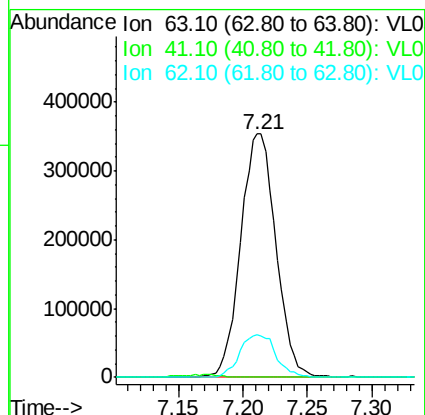
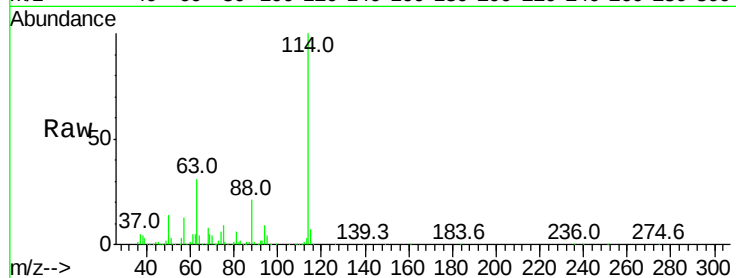
Tgt Ion: 63 Resp: 671001

Ion Ratio Lower Upper

63 100

41 0.1 65.6 98.4#

62 17.5 53.0 79.6#



#42

Bromodichloromethane

Concen: 0.034 ppbv

RT: 7.84 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VL034302.D

Acq: 16 Oct 2019 15:28

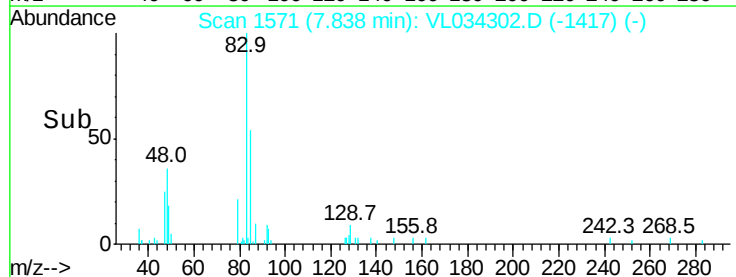
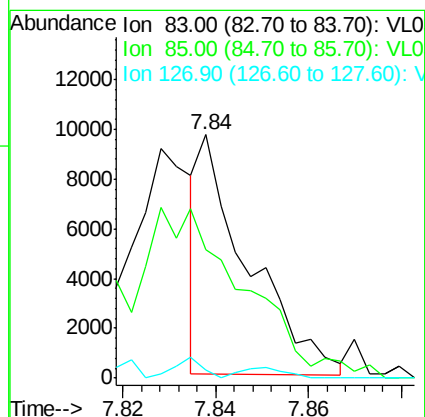
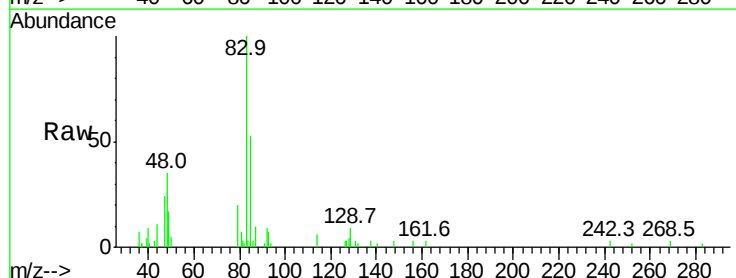
Tgt Ion: 83 Resp: 7028

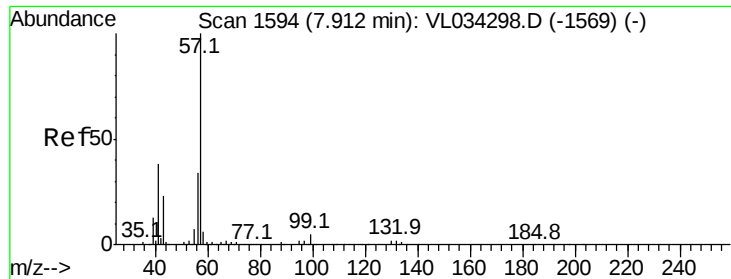
Ion Ratio Lower Upper

83 100

85 48.5 51.8 77.6#

127 3.5 7.0 10.6#

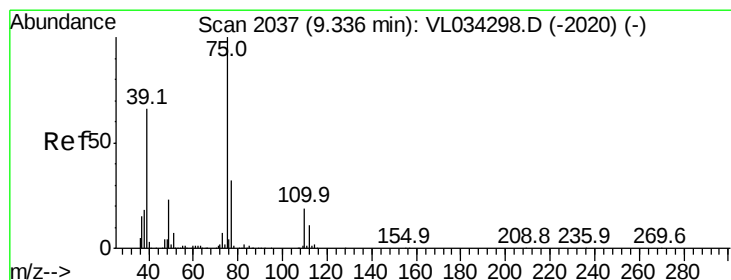
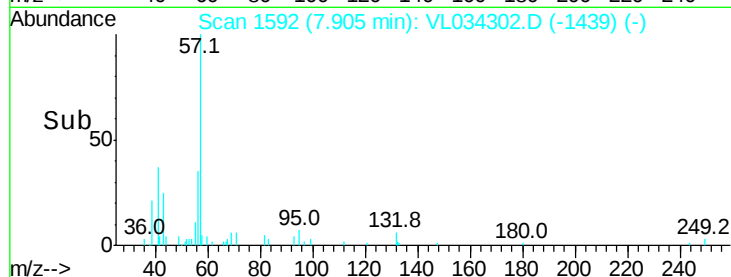
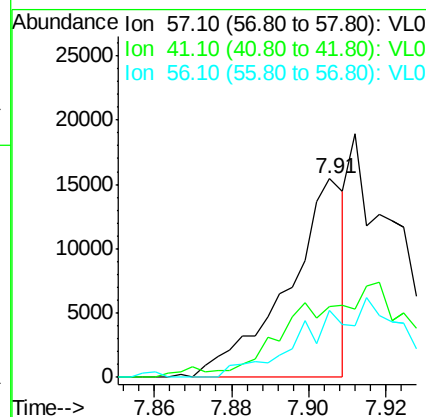
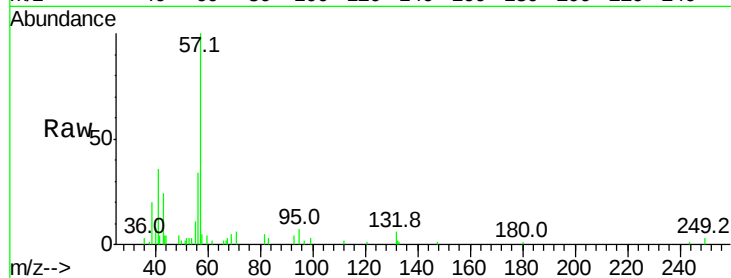




#44
2,2,4-Trimethylpentane
Concen: 0.034 ppbv
RT: 7.91 min Scan# 1592
Delta R.T. -0.01 min
Lab File: VL034302.D
Acq: 16 Oct 2019 15:28

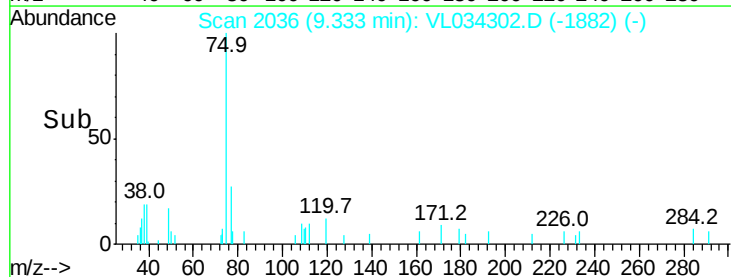
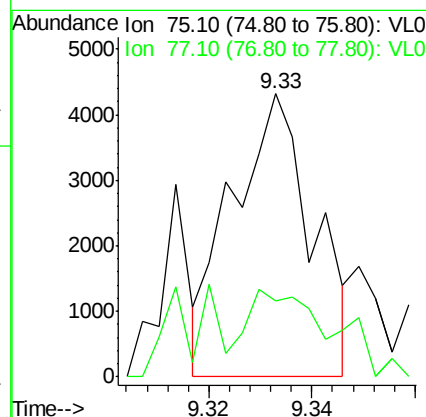
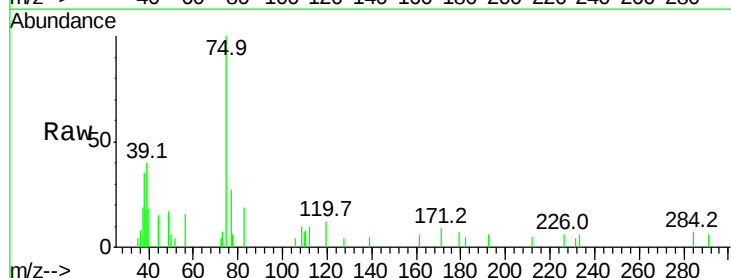
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

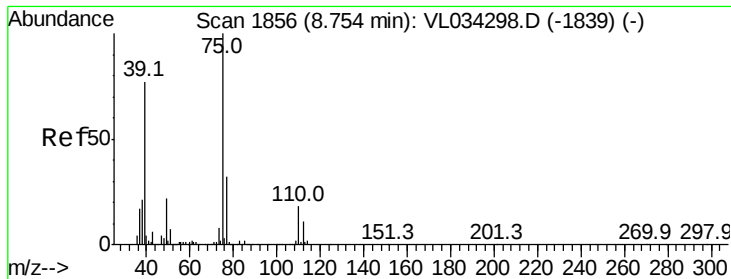
Tgt Ion: 57 Resp: 15838
Ion Ratio Lower Upper
57 100
41 0.0 29.3 43.9#
56 0.0 25.3 37.9#



#45
t-1,3-Dichloropropene
Concen: 0.040 ppbv
RT: 9.33 min Scan# 2036
Delta R.T. -0.00 min
Lab File: VL034302.D
Acq: 16 Oct 2019 15:28

Tgt Ion: 75 Resp: 4696
Ion Ratio Lower Upper
75 100
77 33.3 25.6 38.4





#46

cis-1,3-Dichloropropene

Concen: 0.045 ppbv

RT: 8.76 min Scan# 1857

Delta R.T. 0.00 min

Lab File: VL034302.D

Acq: 16 Oct 2019 15:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

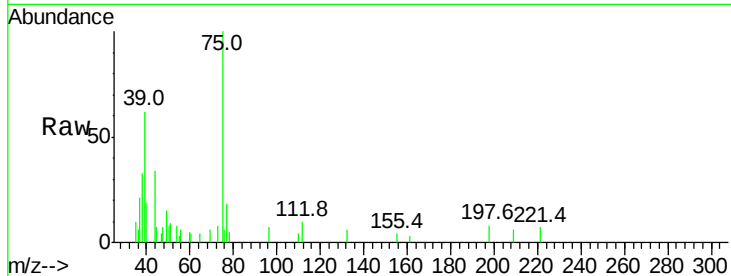
Tgt Ion: 75 Resp: 6336

Ion Ratio Lower Upper

75 100

39 42.8 61.2 91.8#

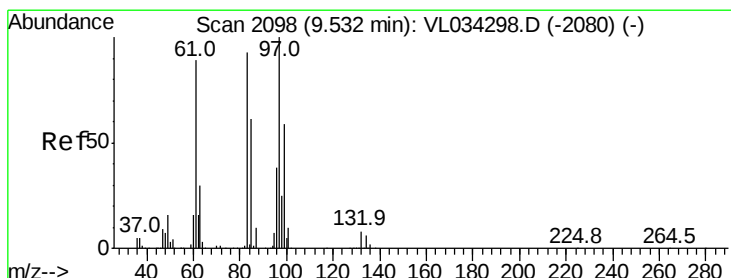
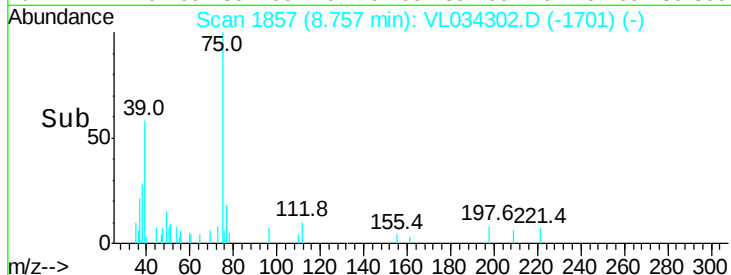
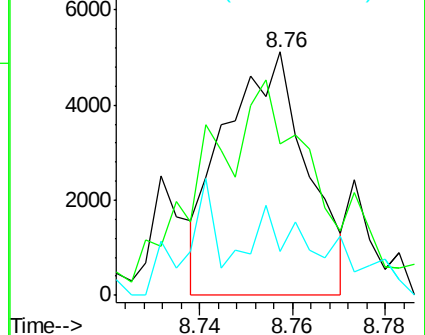
77 0.0 25.9 38.9#



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0



#47

1,1,2-Trichloroethane

Concen: 0.059 ppbv

RT: 9.53 min Scan# 2098

Delta R.T. -0.00 min

Lab File: VL034302.D

Acq: 16 Oct 2019 15:28

Tgt Ion: 97 Resp: 5776

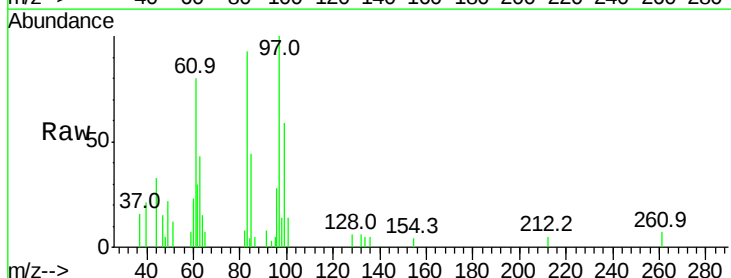
Ion Ratio Lower Upper

97 100

83 77.0 74.2 111.2

85 32.5 48.6 73.0#

99 52.5 47.0 70.6

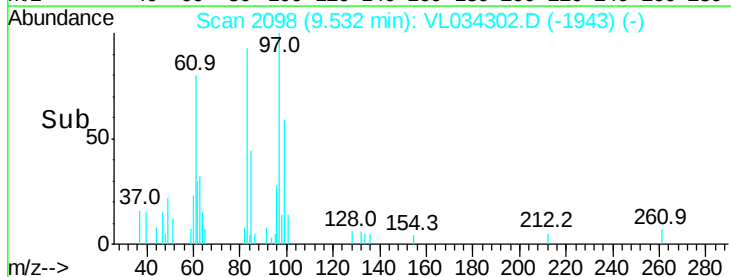
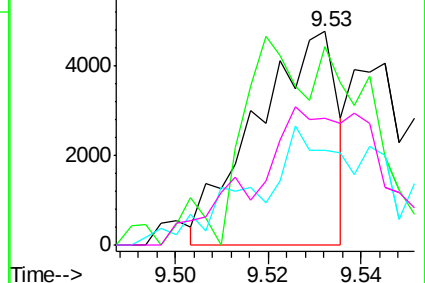


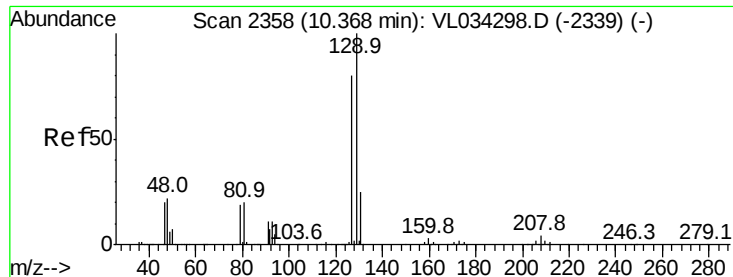
Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0





#48

Dibromochloromethane

Concen: 0.040 ppbv

RT: 10.36 min Scan# 2356

Delta R.T. -0.01 min

Lab File: VL034302.D

Acq: 16 Oct 2019 15:28

Instrument :

MSVOA_L

ClientSampleId :

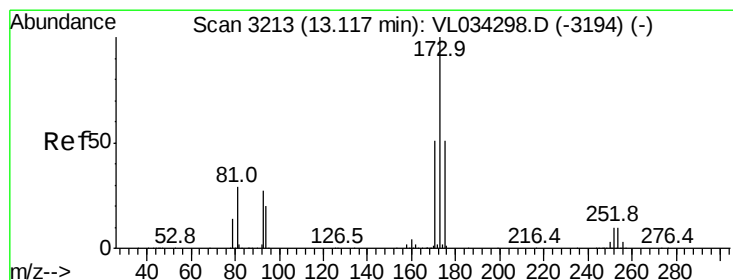
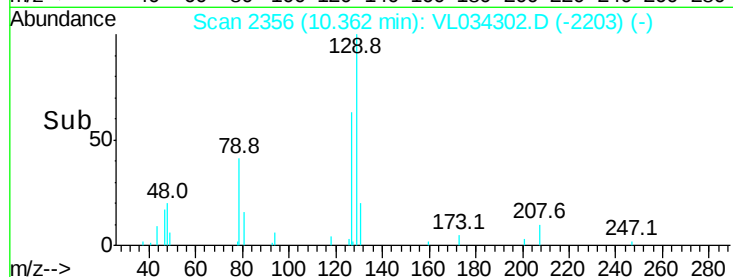
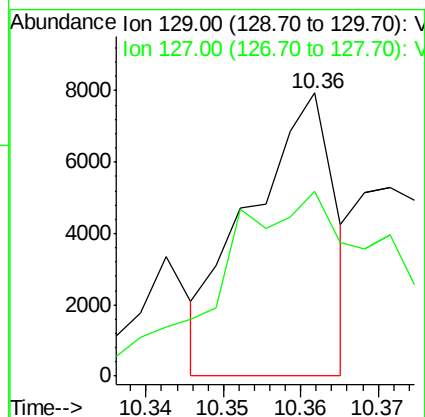
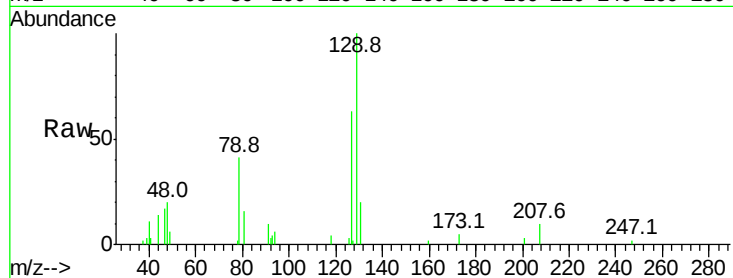
VSTDIC0.1

Tgt Ion:129 Resp: 6107

Ion Ratio Lower Upper

129 100

127 163.7 39.7 119.1#



#49

Bromoform

Concen: 0.054 ppbv

RT: 13.11 min Scan# 3211

Delta R.T. -0.01 min

Lab File: VL034302.D

Acq: 16 Oct 2019 15:28

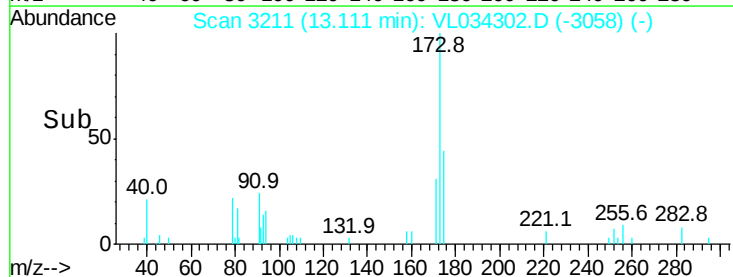
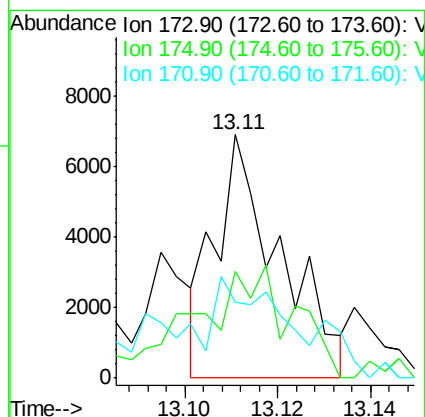
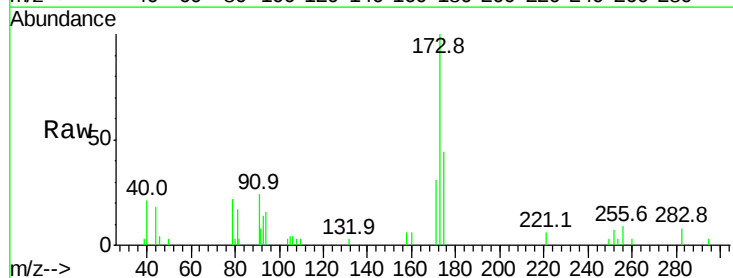
Tgt Ion:173 Resp: 6706

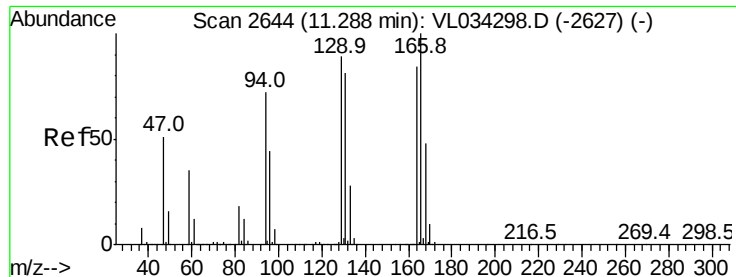
Ion Ratio Lower Upper

173 100

175 77.5 39.8 59.6#

171 76.6 41.8 62.6#





#52

Tetrachloroethene

Concen: 0.041 ppbv

RT: 11.28 min Scan# 2641

Delta R.T. -0.01 min

Lab File: VL034302.D

Acq: 16 Oct 2019 15:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion:164 Resp: 3296

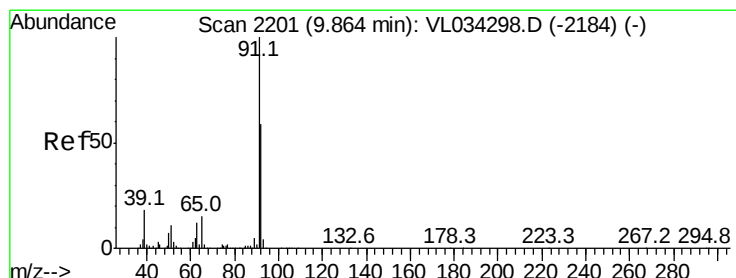
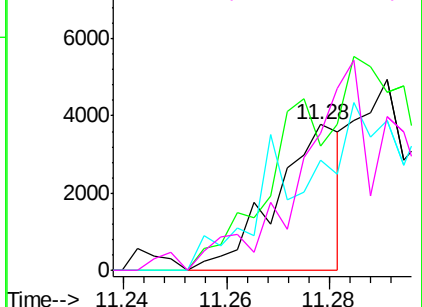
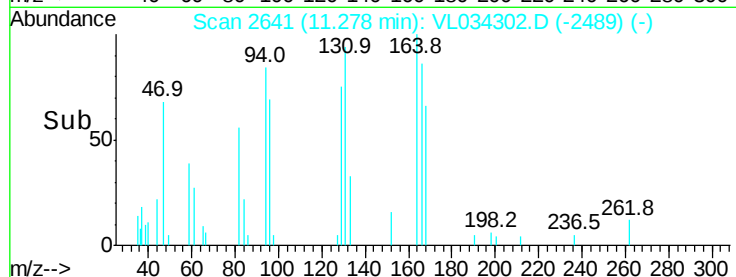
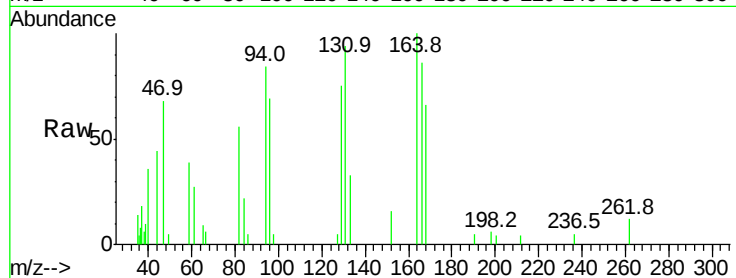
Ion Ratio Lower Upper

164 100

166 85.6 95.3 142.9#

129 75.3 84.5 126.7#

131 94.3 77.3 115.9



#53

Toluene

Concen: 0.033 ppbv

RT: 9.86 min Scan# 2199

Delta R.T. -0.01 min

Lab File: VL034302.D

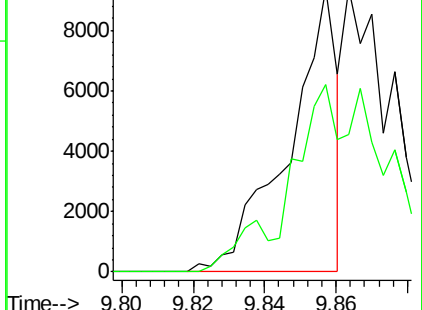
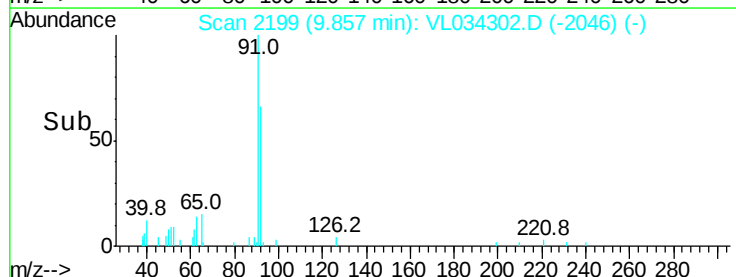
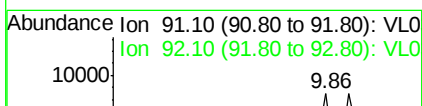
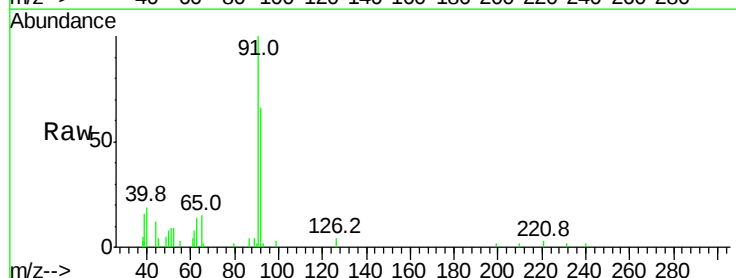
Acq: 16 Oct 2019 15:28

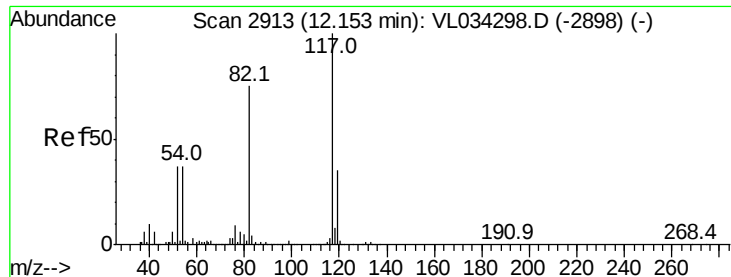
Tgt Ion: 91 Resp: 8795

Ion Ratio Lower Upper

91 100

92 135.6 48.4 72.6#

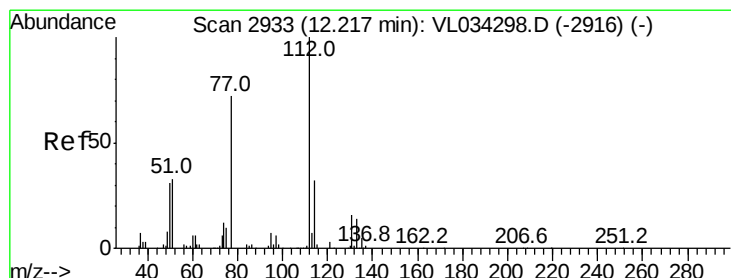
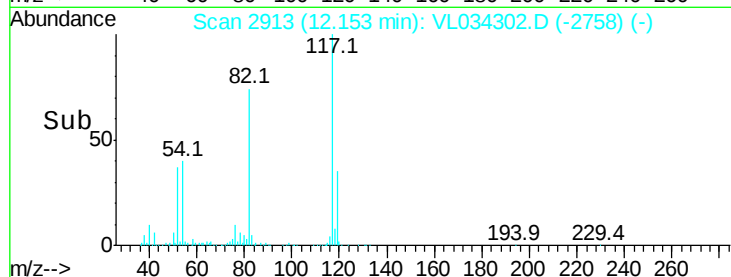
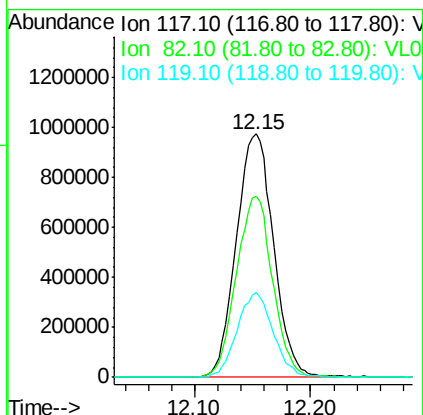
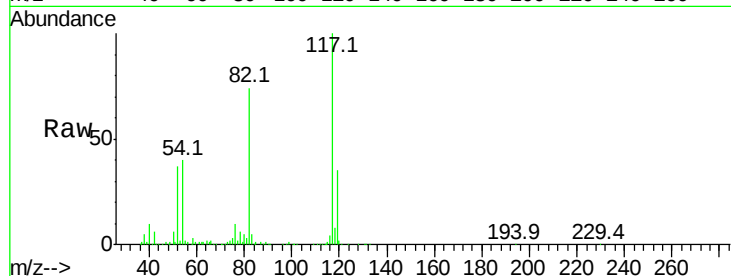




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.15 min Scan# 2913
Delta R.T. -0.00 min
Lab File: VL034302.D
Acq: 16 Oct 2019 15:28

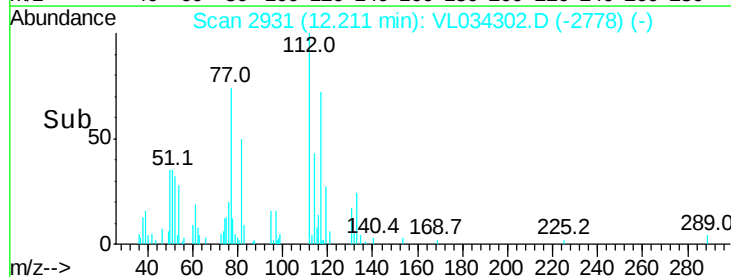
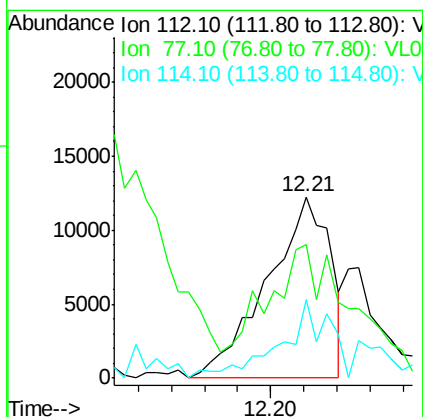
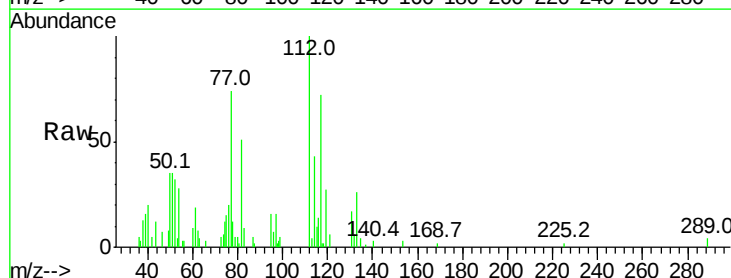
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

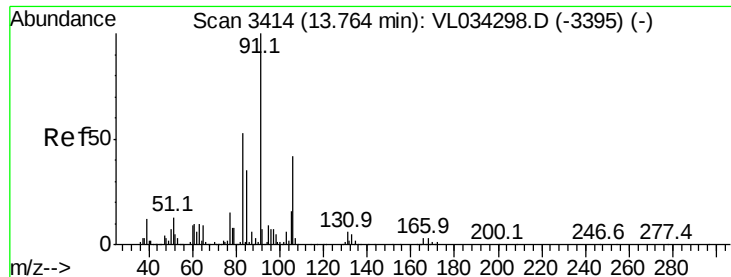
Tgt Ion:117 Resp: 2174563
Ion Ratio Lower Upper
117 100
82 72.8 55.5 83.3
119 34.1 26.5 39.7



#57
Chlorobenzene
Concen: 0.086 ppbv
RT: 12.21 min Scan# 2931
Delta R.T. -0.01 min
Lab File: VL034302.D
Acq: 16 Oct 2019 15:28

Tgt Ion:112 Resp: 16258
Ion Ratio Lower Upper
112 100
77 32.4 58.6 88.0#
114 43.4 28.6 35.0#





#60

o-Xylene

Concen: 0.063 ppbv

RT: 13.76 min Scan# 3414

Delta R.T. -0.00 min

Lab File: VL034302.D

Acq: 16 Oct 2019 15:28

Instrument :

MSVOA_L

ClientSampleId :

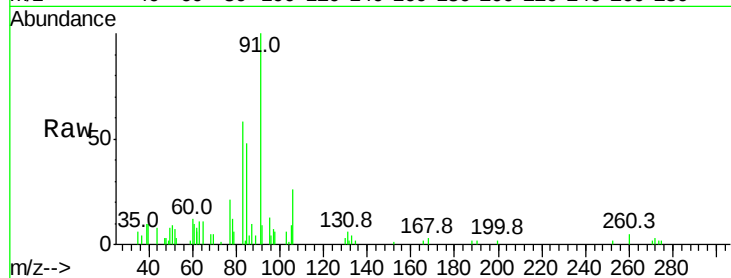
VSTDIC0.1

Tgt Ion: 91 Resp: 18218

Ion Ratio Lower Upper

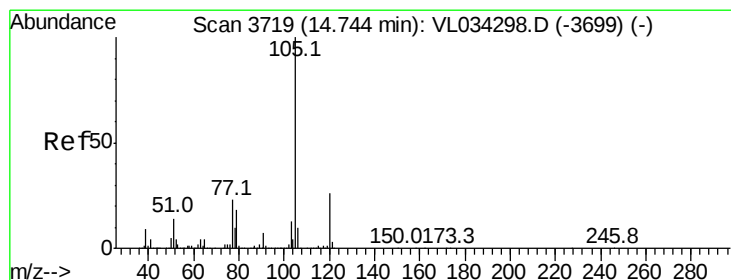
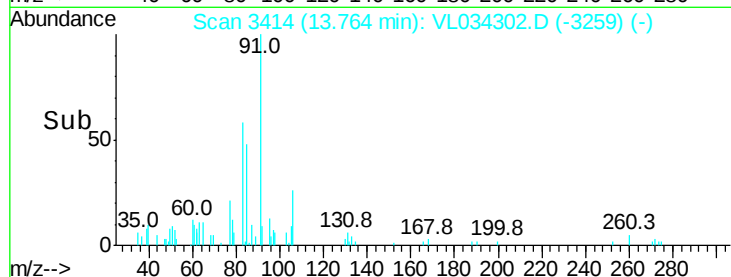
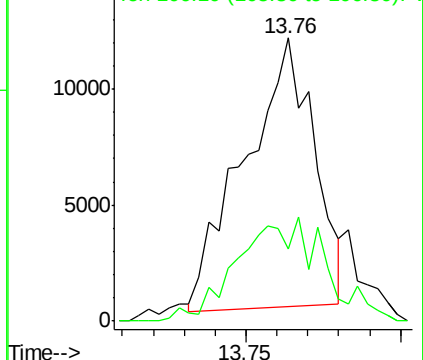
91 100

106 47.1 21.6 64.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#62

Isopropylbenzene

Concen: 0.067 ppbv

RT: 14.74 min Scan# 3717

Delta R.T. -0.01 min

Lab File: VL034302.D

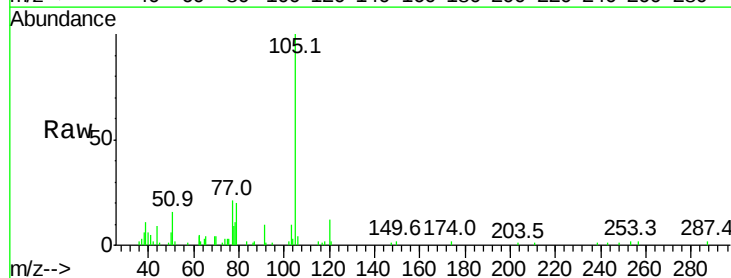
Acq: 16 Oct 2019 15:28

Tgt Ion: 105 Resp: 25377

Ion Ratio Lower Upper

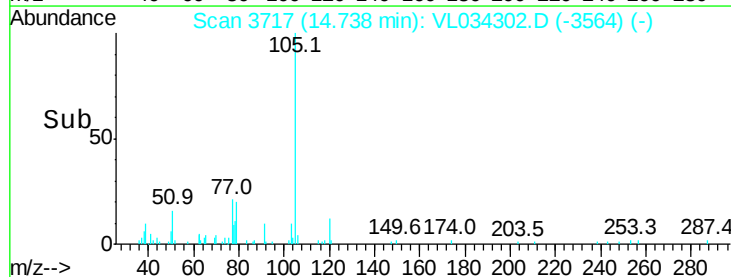
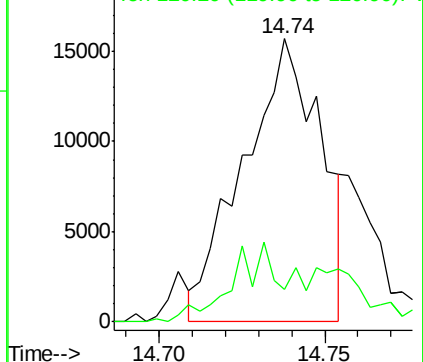
105 100

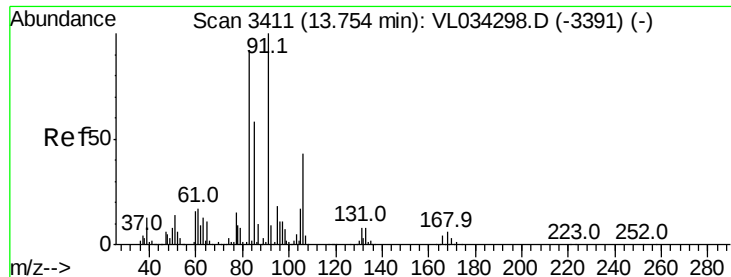
120 32.8 20.8 31.2#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 0.033 ppbv

RT: 13.75 min Scan# 3411

Delta R.T. -0.00 min

Lab File: VL034302.D

Acq: 16 Oct 2019 15:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

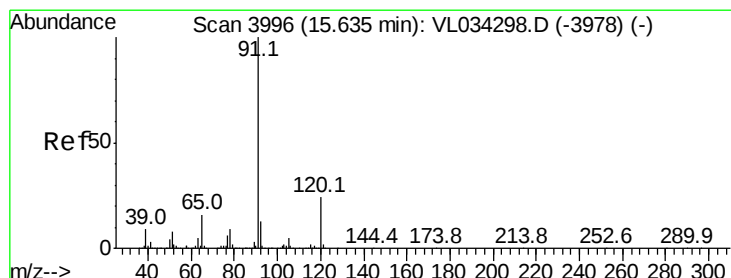
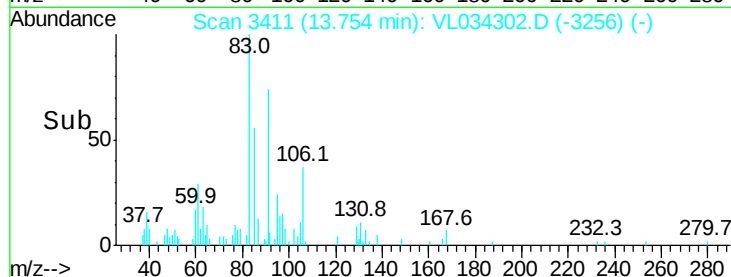
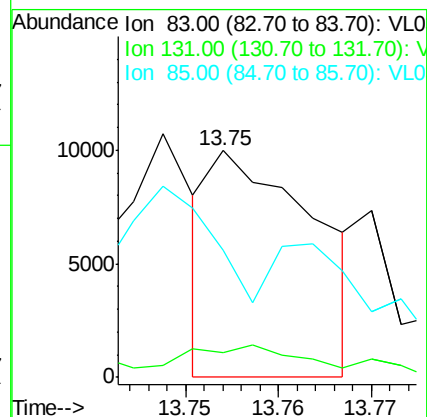
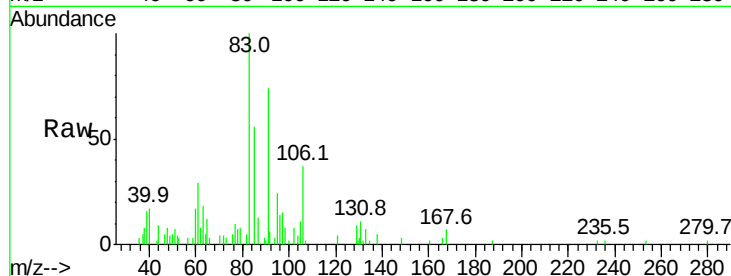
Tgt Ion: 83 Resp: 7777

Ion Ratio Lower Upper

83 100

131 0.0 4.8 14.4#

85 0.0 32.5 97.4#



#64

n-propylbenzene

Concen: 0.043 ppbv

RT: 15.63 min Scan# 3996

Delta R.T. -0.00 min

Lab File: VL034302.D

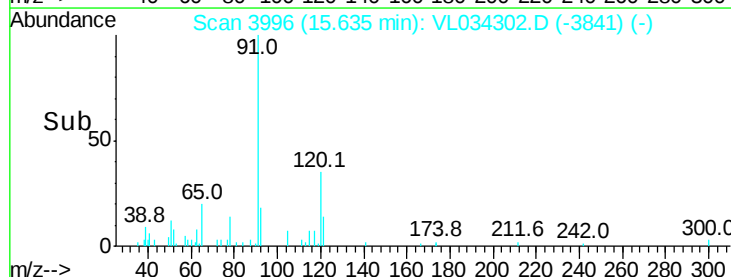
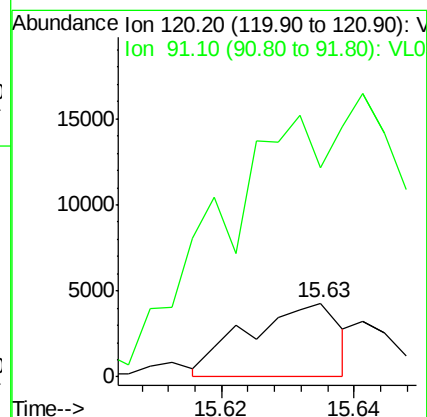
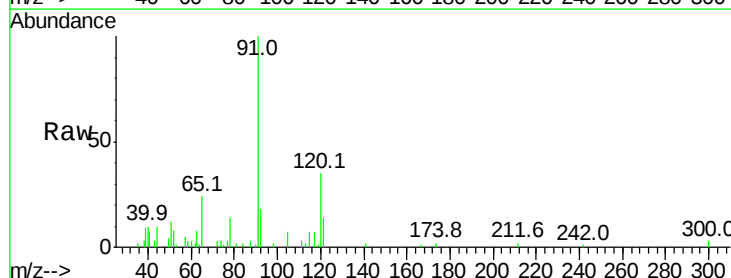
Acq: 16 Oct 2019 15:28

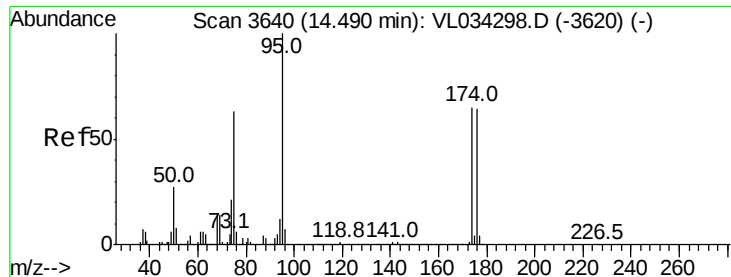
Tgt Ion: 120 Resp: 4115

Ion Ratio Lower Upper

120 100

91 0.0 374.9 562.3#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.031 ppbv

RT: 14.49 min Scan# 3640

Delta R.T. -0.00 min

Lab File: VL034302.D

Acq: 16 Oct 2019 15:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

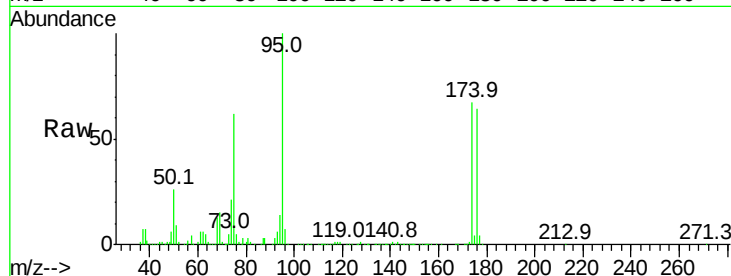
Tgt Ion: 95 Resp: 1895364

Ion Ratio Lower Upper

95 100

174 64.7 52.6 78.8

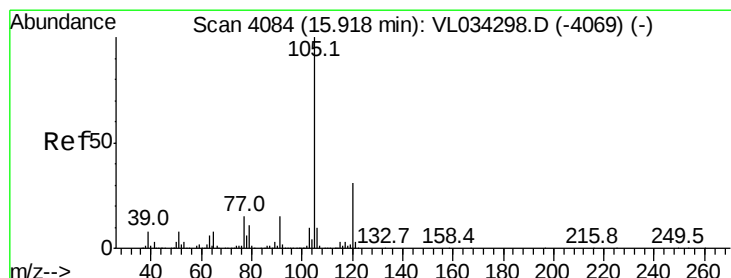
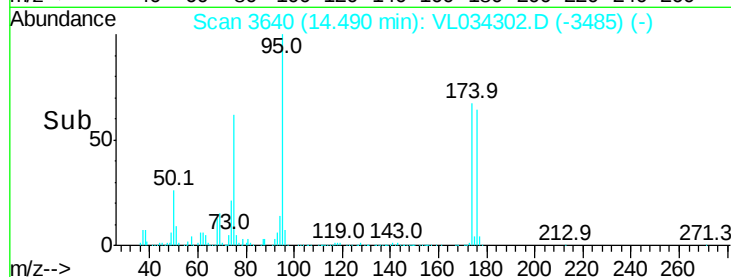
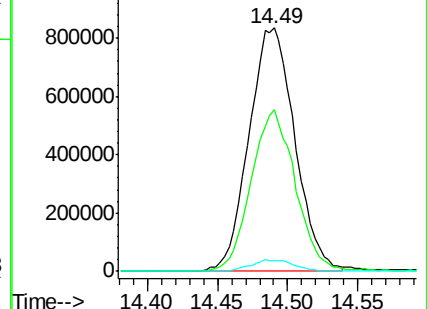
175 4.5 3.8 5.6



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): VL0

Ion 175.00 (174.70 to 175.70): VL0



#72

4-Ethyltoluene

Concen: 0.044 ppbv

RT: 15.91 min Scan# 4082

Delta R.T. -0.01 min

Lab File: VL034302.D

Acq: 16 Oct 2019 15:28

Tgt Ion: 105 Resp: 14354

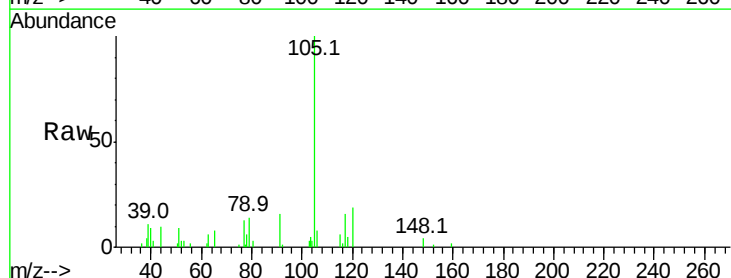
Ion Ratio Lower Upper

105 100

120 0.0 23.8 35.8#

91 0.0 11.2 16.8#

77 29.6 12.8 19.2#

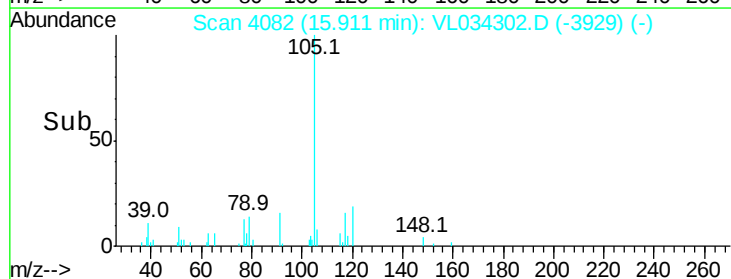
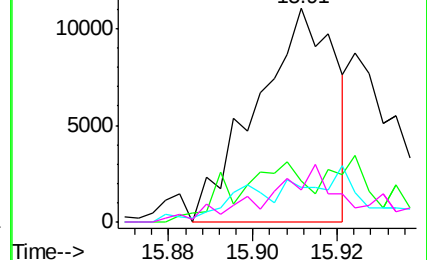


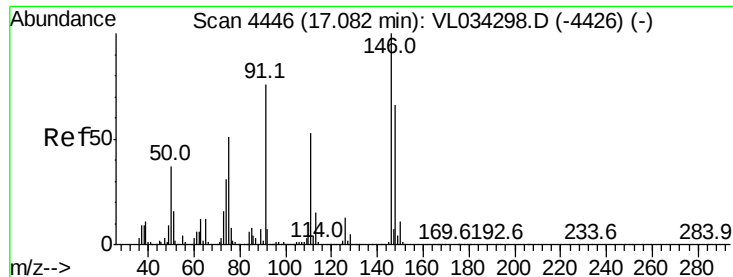
Abundance Ion 105.10 (104.80 to 105.80): VL0

Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

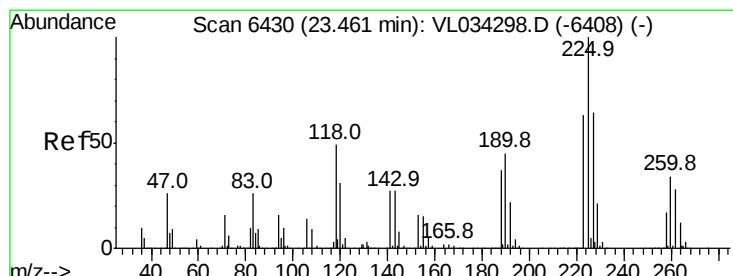
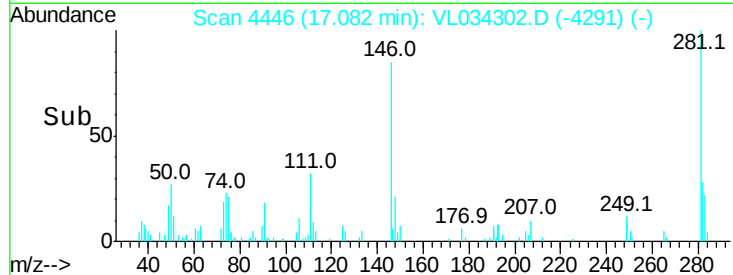
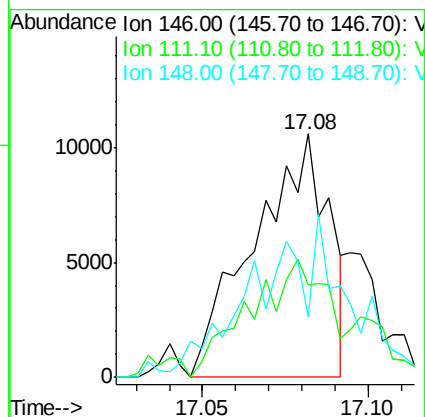
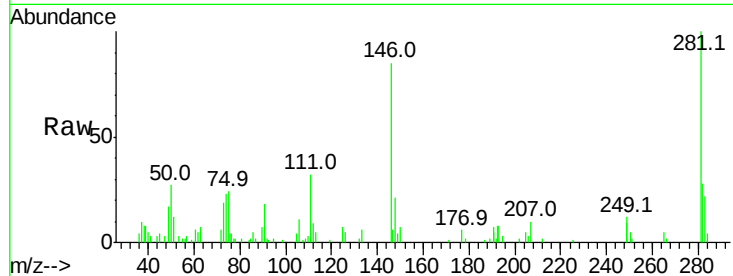




#75
 1,3-Dichlorobenzene
 Concen: 0.092 ppbv
 RT: 17.08 min Scan# 4446
 Delta R.T. -0.00 min
 Lab File: VL034302.D
 Acq: 16 Oct 2019 15:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Tgt Ion:146 Resp: 16628
 Ion Ratio Lower Upper
 146 100
 111 71.4 24.5 73.5
 148 80.1 32.3 96.8



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.059 ppbv
 RT: 23.46 min Scan# 6430
 Delta R.T. -0.00 min
 Lab File: VL034302.D
 Acq: 16 Oct 2019 15:28

Tgt Ion:225 Resp: 7157
 Ion Ratio Lower Upper
 225 100
 223 0.0 50.8 76.2#
 227 195.3 51.5 77.3#

